

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.

UTU-76241

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA Agreement, Name and No.

Greater Boundary II Unit

8. Lease Name and Well No.

Greater Boundary II Federal S-28-8-17

9. API Well No.

43013-33976

10. Field and Pool, or Exploratory /

Monument Butte 109

11. Sec., T., R., M., or Blk. and Survey or Area

Sec. 28, T8S R17E

12. County or Parish

Duchesne

13. State

UT

1a. Type of Work: ☒ DRILL

☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other

☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Newfield Production Company

3a. Address

Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)

(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface SW/SE 525' FSL 1882' FEL

At proposed prod. zone 456 1290' FSL 1265' FEL

14. Distance in miles and direction from nearest town or post office\*

Approximatley 12.9 miles southeast of Myton, Utah

15. Distance from proposed\*

location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 2610' f/lse, 2610' f/unit

16. No. of Acres in lease

1880.00

17. Spacing Unit dedicated to this well

20 Acres

18. Distance from proposed location\*

to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1406'

19. Proposed Depth

6360'

20. BLM/BIA Bond No. on file

WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5136' GL

22. Approximate date work will start\*

3rd Quarter 2008

23. Estimated duration

Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Mandie Crozier

Name (Printed/Typed)

Mandie Crozier

Date

4/22/08

Title

Regulatory Specialist

Approved by Signature

Bradley G. Hill

Name (Printed/Typed)

BRADLEY G. HILL

Date

05-05-08

Title

Office ENVIRONMENTAL MANAGER

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

Federal Approval of this  
Action is Necessary

RECEIVED

APR 29 2008

DIV. OF OIL, GAS & MINING

Sur f

584571X

44372564

40.683229

- 110.068070

BHL

584757X

44374924

40.085332

- 110.005853

BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

**NEWFIELD PRODUCTION COMPANY  
GREATER BOUNDARY II FEDERAL S-28-8-17  
AT SURFACE: SW/SE SECTION 28, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 1633'
Green River	1633'
Wasatch	6360'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1633' – 6360' - Oil

**4. PROPOSED CASING PROGRAM**

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

**8. TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Monument Butte Field SOP.

**9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY  
GREATER BOUNDARY II FEDERAL S-28-8-17  
AT SURFACE: SW/SE SECTION 28, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Greater Boundary II Federal S-28-8-17 located in the SW 1/4 SE 1/4 Section 28, T8S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly - 9.8 miles  $\pm$  to it's junction with an existing road to the east; proceed in a northeasterly direction - 1.6 miles  $\pm$  to to it's junction with and existing road to the east; proceed easterly - 0.1 miles  $\pm$  to the beginning of the access road existing Tar Sands Federal 15-28-8-17 well location.

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing Tar Sands Federal 15-28-8-17 well pad. See attached Topographic Map "B".

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

The proposed well will be drilled directionally off of the Tar Sands Federal 15-28-8-17 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Greater Boundary II Federal S-28-8-17. All permanent surface equipment will be painted Carlsbad Canyon.

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District  
Water Right: 43-10136

Neil Moon Pond  
Water Right: 43-11787

Maurice Harvey Pond  
Water Right: 47-1358

Newfield Collector Well



Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. **SOURCE OF CONSTRUCTION MATERIALS**

The proposed Greater Boundary II Federal S-28-8-17 will be drilled off of the existing Tar Sands Federal 15-28-8-17 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

8. **ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

None for the proposed Greater Boundary II Federal S-28-8-17

**Reserve Pit Liner**

A 16 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Squirrel Tail	<i>Elymus Elymoides</i>	6 lbs/acre
Siberian Wheatgrass	<i>Agropyron Fragile</i>	2 lbs/acre
Gardner Saltbush	<i>Atriplex Gardneri</i>	1 lbs/acre
Shadscale	<i>Atriplex Confertifolia</i>	1 lbs/acre
Fourwing Saltbush	<i>Atriplex Canescens</i>	1 lbs/acre
Scarlet Globemallow	<i>Sphaeralcea Conccinea</i>	0.20 lbs/acre

**Details of the On-Site Inspection**

The proposed Greater Boundary II Federal S-28-8-17 was on-sited on 3/26/08. The following were present; Dave Allred (Newfield Production), Kevan Stevens (Newfield Production ), Michael Cutler (Bureau of Land Management), Brandon McDonald (Bureau of Land Management )and James Herford (Bureau of Land Management). Weather conditions were clear and ground cover was 100% open.

**LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION****Representative**

Name: Dave Allred  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

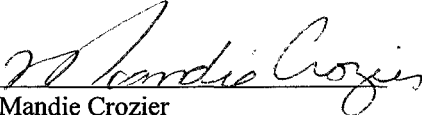
**Certification**

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #S-28-8-17 SW/SE Section 28, Township 8S, Range 17E: Lease UTU-76241 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

4/22/08

Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company



**Scientific Drilling**  
Rocky Mountain Operations

Project: Duchesne County, UT NAD83 UTC  
Site: Greater Boundary  
Well: Greater Bounrady S-28-8-17  
Wellbore: OH  
Design: Plan #1

Newfield Exploration Co.

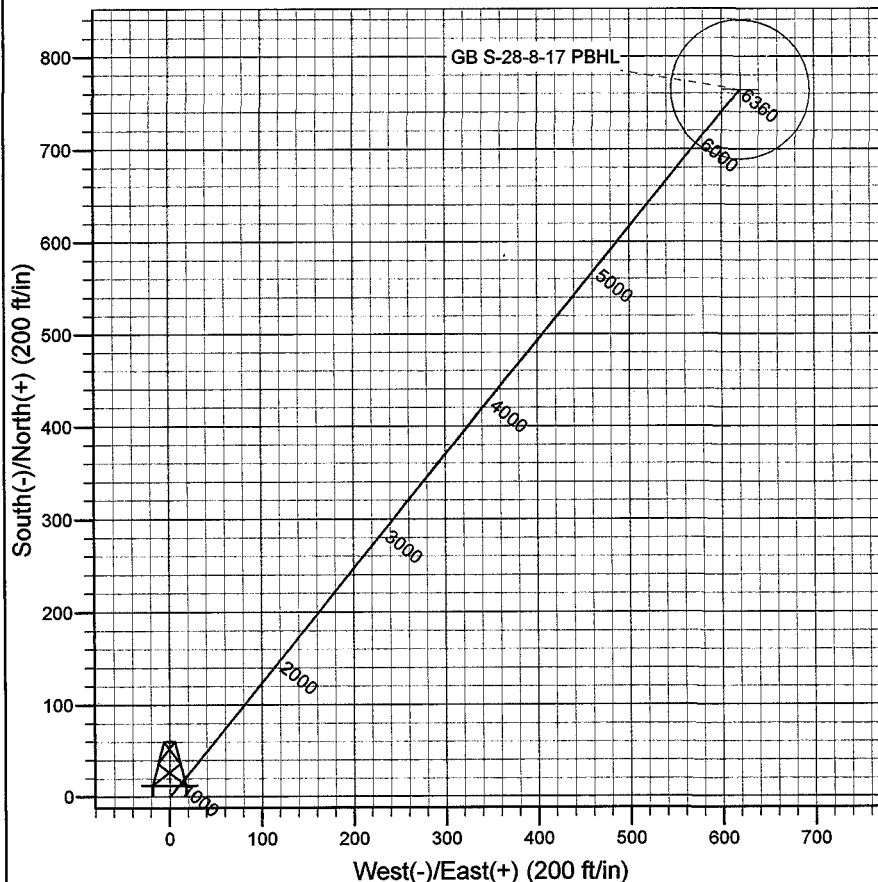
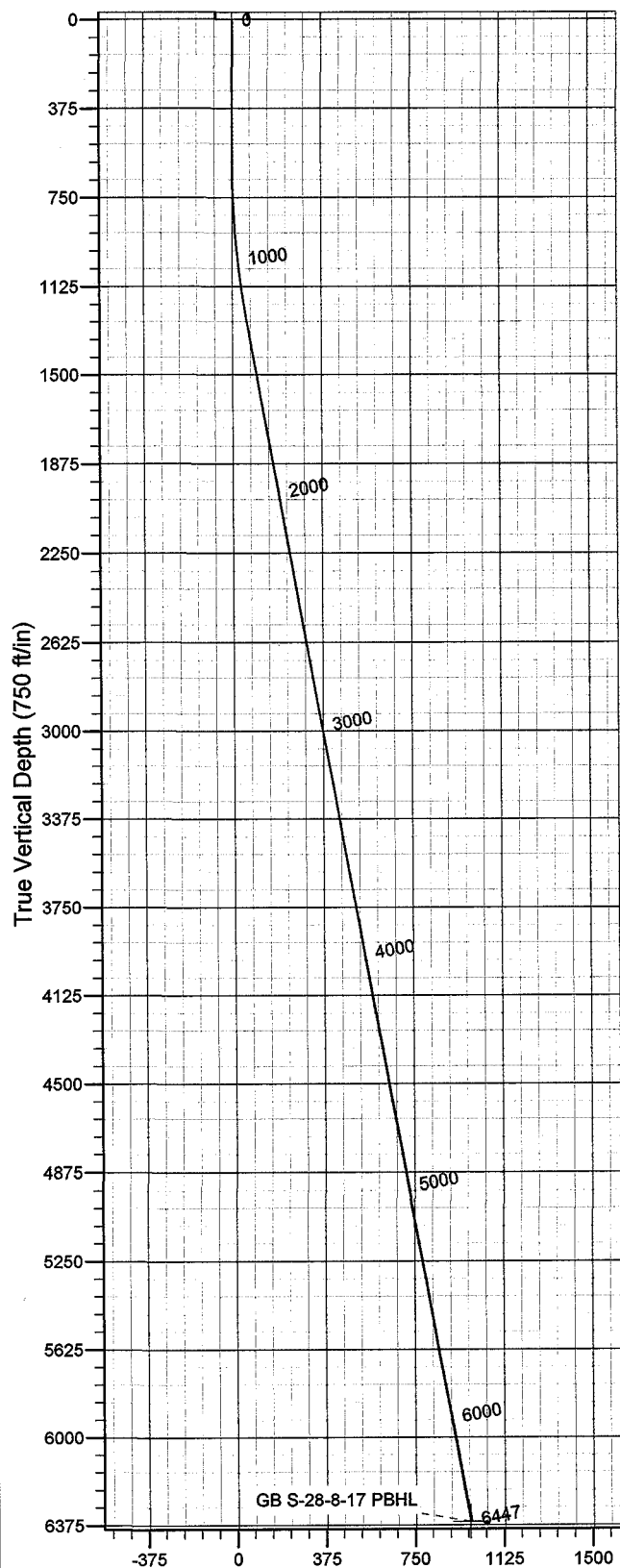


Azimuths to True North  
Magnetic North: 11.69°

Magnetic Field  
Strength: 52637.1snT  
Dip Angle: 65.92°  
Date: 2008-04-23  
Model: IGRF2005-10

WELL DETAILS: Greater Bounrady S-28-8-17

GL 5136' & RKB 12' @ 5148.00ft 5136.00  
+N/-S +E/-W Northing Easting Latitude Longitude  
0.00 0.00 7202495.57 2057628.96 40° 4' 59.260 N 110° 0' 31.760 W



Plan: Plan #1 (Greater Bounrady S-28-8-17/OH)

Created By: Julie Cruse Date: 2008-04-23

PROJECT DETAILS: Duchesne County, UT NAD83 UTC

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Utah Central Zone  
Location:  
System Datum: Mean Sea Level  
Local North: True

#### SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
1286.32	10.29	39.04	1282.63	47.76	38.73	1.50	39.04	61.49	
6446.76	10.29	39.04	6360.00	764.07	619.61	0.00	0.00	983.73	GB S-28-8-17 PBHL

# **Newfield Exploration Co.**

**Duchesne County, UT NAD83 UTC**

**Greater Boundary**

**Greater Bounrady S-28-8-17**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**23 April, 2008**

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Greater Boundary  
**Well:** Greater Bounrady S-28-8-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Greater Bounrady S-28-8-17  
**TVD Reference:** GL 5136' & RKB 12' @ 5148.00ft  
**MD Reference:** GL 5136' & RKB 12' @ 5148.00ft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

<b>Project</b>	Duchesne County, UT NAD83 UTC		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

<b>Site</b>	Greater Boundary		
<b>Site Position:</b>		<b>Northing:</b>	7,202,495.58 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,057,628.96 ft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in
		<b>Latitude:</b>	40° 4' 59.260 N
		<b>Longitude:</b>	110° 0' 31.760 W
		<b>Grid Convergence:</b>	0.96 °

<b>Well</b>	Greater Bounrady S-28-8-17, 525' FSL 1882' FEL Sec 28 T8S R17E		
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Latitude:</b> 40° 4' 59.260 N
	<b>+E/-W</b>	0.00 ft	<b>Longitude:</b> 110° 0' 31.760 W
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	ft
		<b>Ground Level:</b>	5,136.00 ft

<b>Wellbore</b>	OH		
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>
	IGRF2005-10	2008-04-23	11.69
			<b>Dip Angle (°)</b>
			65.92
			<b>Field Strength (nT)</b>
			52,637

<b>Design</b>	Plan #1		
<b>Audit Notes:</b>			
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b> 0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	39.04

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,286.32	10.29	39.04	1,282.63	47.76	38.73	1.50	1.50	0.00	39.04	
6,446.76	10.29	39.04	6,360.00	764.07	619.61	0.00	0.00	0.00	0.00	GB S-28-8-17 PBHL

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Greater Boundary  
**Well:** Greater Bounrady S-28-8-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Greater Bounrady S-28-8-17  
**TVD Reference:** GL 5136' & RKB 12' @ 5148.00ft  
**MD Reference:** GL 5136' & RKB 12' @ 5148.00ft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	1.50	39.04	699.99	1.02	0.82	1.31	1.50	1.50	0.00
800.00	3.00	39.04	799.91	4.07	3.30	5.23	1.50	1.50	0.00
900.00	4.50	39.04	899.69	9.15	7.42	11.77	1.50	1.50	0.00
1,000.00	6.00	39.04	999.27	16.25	13.18	20.92	1.50	1.50	0.00
1,100.00	7.50	39.04	1,098.57	25.38	20.58	32.68	1.50	1.50	0.00
1,200.00	9.00	39.04	1,197.54	36.53	29.62	47.03	1.50	1.50	0.00
1,286.32	10.29	39.04	1,282.63	47.76	38.73	61.49	1.50	1.50	0.00
1,300.00	10.29	39.04	1,296.09	49.66	40.27	63.94	0.00	0.00	0.00
1,400.00	10.29	39.04	1,394.48	63.54	51.53	81.81	0.00	0.00	0.00
1,500.00	10.29	39.04	1,492.87	77.42	62.78	99.68	0.00	0.00	0.00
1,600.00	10.29	39.04	1,591.26	91.30	74.04	117.55	0.00	0.00	0.00
1,700.00	10.29	39.04	1,689.65	105.18	85.30	135.42	0.00	0.00	0.00
1,800.00	10.29	39.04	1,788.04	119.06	96.55	153.29	0.00	0.00	0.00
1,900.00	10.29	39.04	1,886.43	132.95	107.81	171.17	0.00	0.00	0.00
2,000.00	10.29	39.04	1,984.82	146.83	119.07	189.04	0.00	0.00	0.00
2,100.00	10.29	39.04	2,083.21	160.71	130.32	206.91	0.00	0.00	0.00
2,200.00	10.29	39.04	2,181.60	174.59	141.58	224.78	0.00	0.00	0.00
2,300.00	10.29	39.04	2,279.99	188.47	152.84	242.65	0.00	0.00	0.00
2,400.00	10.29	39.04	2,378.38	202.35	164.09	260.52	0.00	0.00	0.00
2,500.00	10.29	39.04	2,476.77	216.23	175.35	278.39	0.00	0.00	0.00
2,600.00	10.29	39.04	2,575.16	230.11	186.61	296.26	0.00	0.00	0.00
2,700.00	10.29	39.04	2,673.55	243.99	197.86	314.14	0.00	0.00	0.00
2,800.00	10.29	39.04	2,771.94	257.87	209.12	332.01	0.00	0.00	0.00
2,900.00	10.29	39.04	2,870.33	271.75	220.38	349.88	0.00	0.00	0.00
3,000.00	10.29	39.04	2,968.73	285.63	231.63	367.75	0.00	0.00	0.00
3,100.00	10.29	39.04	3,067.12	299.51	242.89	385.62	0.00	0.00	0.00
3,200.00	10.29	39.04	3,165.51	313.39	254.14	403.49	0.00	0.00	0.00
3,300.00	10.29	39.04	3,263.90	327.28	265.40	421.36	0.00	0.00	0.00
3,400.00	10.29	39.04	3,362.29	341.16	276.66	439.23	0.00	0.00	0.00
3,500.00	10.29	39.04	3,460.68	355.04	287.91	457.11	0.00	0.00	0.00
3,600.00	10.29	39.04	3,559.07	368.92	299.17	474.98	0.00	0.00	0.00
3,700.00	10.29	39.04	3,657.46	382.80	310.43	492.85	0.00	0.00	0.00
3,800.00	10.29	39.04	3,755.85	396.68	321.68	510.72	0.00	0.00	0.00
3,900.00	10.29	39.04	3,854.24	410.56	332.94	528.59	0.00	0.00	0.00
4,000.00	10.29	39.04	3,952.63	424.44	344.20	546.46	0.00	0.00	0.00
4,100.00	10.29	39.04	4,051.02	438.32	355.45	564.33	0.00	0.00	0.00
4,200.00	10.29	39.04	4,149.41	452.20	366.71	582.20	0.00	0.00	0.00
4,300.00	10.29	39.04	4,247.80	466.08	377.97	600.08	0.00	0.00	0.00
4,400.00	10.29	39.04	4,346.19	479.96	389.22	617.95	0.00	0.00	0.00
4,500.00	10.29	39.04	4,444.58	493.84	400.48	635.82	0.00	0.00	0.00
4,600.00	10.29	39.04	4,542.97	507.73	411.73	653.69	0.00	0.00	0.00
4,700.00	10.29	39.04	4,641.36	521.61	422.99	671.56	0.00	0.00	0.00
4,800.00	10.29	39.04	4,739.75	535.49	434.25	689.43	0.00	0.00	0.00
4,900.00	10.29	39.04	4,838.14	549.37	445.50	707.30	0.00	0.00	0.00
5,000.00	10.29	39.04	4,936.53	563.25	456.76	725.17	0.00	0.00	0.00
5,100.00	10.29	39.04	5,034.92	577.13	468.02	743.05	0.00	0.00	0.00
5,200.00	10.29	39.04	5,133.31	591.01	479.27	760.92	0.00	0.00	0.00

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Greater Boundary  
**Well:** Greater Bounrady S-28-8-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Greater Bounrady S-28-8-17  
**TVD Reference:** GL 5136' & RKB 12' @ 5148.00ft  
**MD Reference:** GL 5136' & RKB 12' @ 5148.00ft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	10.29	39.04	5,231.70	604.89	490.53	778.79	0.00	0.00	0.00
5,400.00	10.29	39.04	5,330.09	618.77	501.79	796.66	0.00	0.00	0.00
5,500.00	10.29	39.04	5,428.48	632.65	513.04	814.53	0.00	0.00	0.00
5,600.00	10.29	39.04	5,526.87	646.53	524.30	832.40	0.00	0.00	0.00
5,700.00	10.29	39.04	5,625.26	660.41	535.56	850.27	0.00	0.00	0.00
5,800.00	10.29	39.04	5,723.65	674.29	546.81	868.15	0.00	0.00	0.00
5,900.00	10.29	39.04	5,822.04	688.17	558.07	886.02	0.00	0.00	0.00
6,000.00	10.29	39.04	5,920.43	702.06	569.33	903.89	0.00	0.00	0.00
6,100.00	10.29	39.04	6,018.82	715.94	580.58	921.76	0.00	0.00	0.00
6,200.00	10.29	39.04	6,117.21	729.82	591.84	939.63	0.00	0.00	0.00
6,300.00	10.29	39.04	6,215.60	743.70	603.09	957.50	0.00	0.00	0.00
6,400.00	10.29	39.04	6,313.99	757.58	614.35	975.37	0.00	0.00	0.00
6,446.76	10.29	39.04	6,360.00	764.07	619.61	983.73	0.00	0.00	0.00

### Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
GB S-28-8-17 PBHL - plan hits target center - Circle (radius 75.00)	0.00	0.00	6,360.00	764.07	619.61	7,203,269.87	2,058,235.75	40° 5' 6.811 N	110° 0' 23.788 W

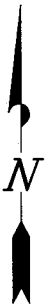
# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

GREATER BOUNDARY S-28-8-17 (Proposed Well)

GREATER BOUNDARY 15-28-8-17 (Existing Well)

Pad Location: SWSE Section 28, T8S, R17E, S.L.B.&M.



Existing Access

Edge of Existing Pad

Existing Stock Pile

N39°02'25"E - 983.73'  
(To Bottom Hole)

Existing Access

15-28-8-17 (EXISTING)

S-28-8-17 (PROPOSED)

Injection Shed

N79°47'09"W

Future Pit

### TOP HOLE FOOTAGES

S-28-8-17 (PROPOSED)  
525' FSL & 1882' FEL

### BOTTOM HOLE FOOTAGES

S-28-8-17 (PROPOSED)  
1290' FSL & 1265' FEL

**Note:**  
Bearings are based on  
GLO Information.

### LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
S-28-8-17	40° 04' 59.26"	110° 00' 31.76"
15-28-8-17	40° 04' 59.14"	110° 00' 31.98"

### RELATIVE COORDINATES From top hole to bottom hole

WELL	NORTH	EAST
S-28-8-17	764'	620'

SURVEYED BY: T.H.	DATE SURVEYED: 02-25-08
DRAWN BY: L.C.S.	DATE DRAWN: 03-12-08
SCALE: 1" = 50'	REVISED:

**Tri State**  
Land Surveying, Inc.  
(435) 781-2501  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

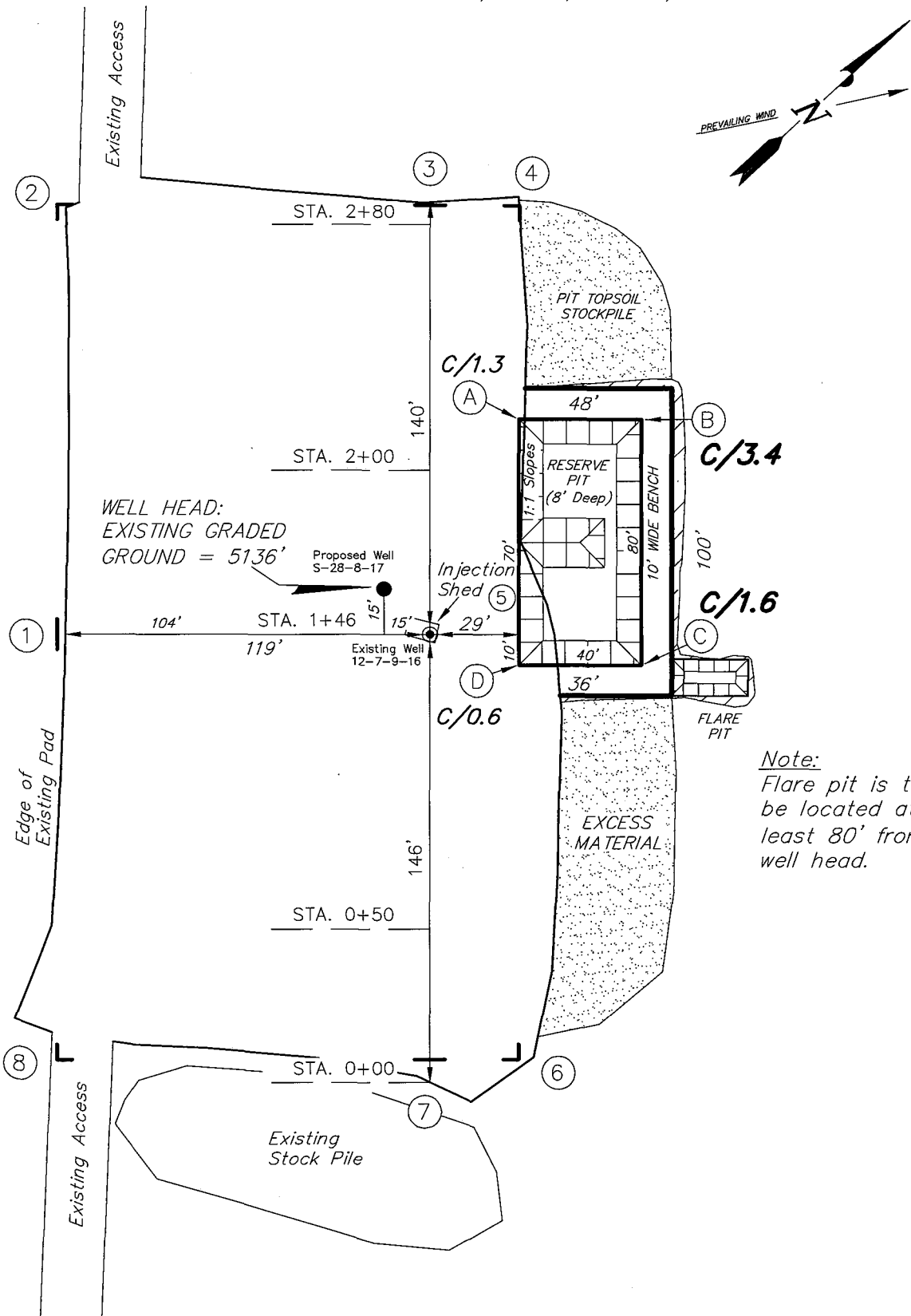


# NEWFIELD PRODUCTION COMPANY

GREATER BOUNDARY S-28-8-17 (Proposed Well)

GREATER BOUNDARY 15-28-8-17 (Existing Well)

Pad Location: SWSE Section 28, T8S, R17E, S.L.B.&M.



SURVEYED BY: T.H.	DATE SURVEYED: 02-25-08
DRAWN BY: L.C.S.	DATE DRAWN: 03-12-08
SCALE: 1" = 50'	REVISED:

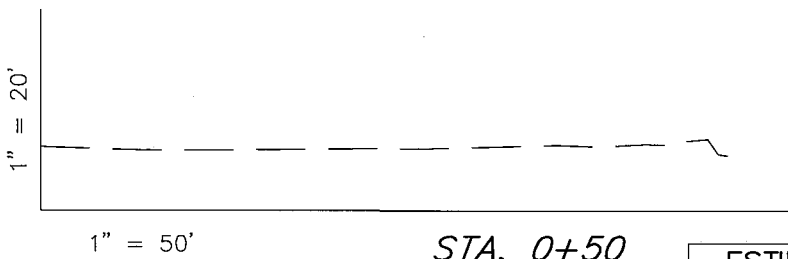
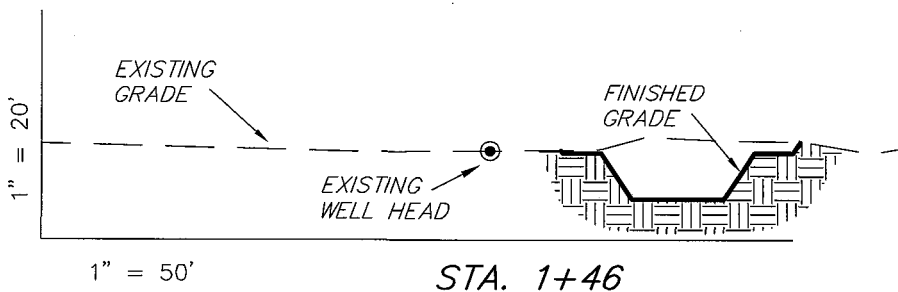
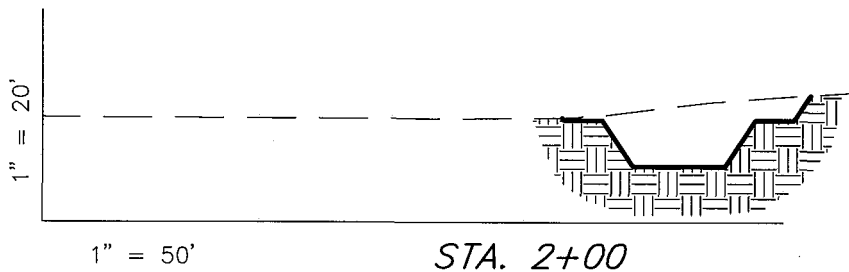
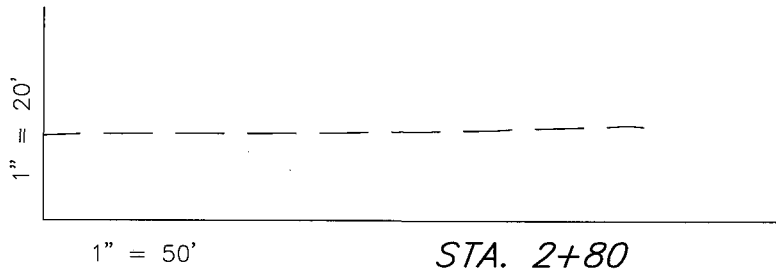
**Tri State**  
Land Surveying, Inc.  
(435) 781-2501  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

GREATER BOUNDARY S-28-8-17 (Proposed Well)

GREATER BOUNDARY 15-28-8-17 (Existing Well)



NOTE:  
UNLESS OTHERWISE NOTED  
CUT SLOPES ARE AT 1:1  
FILL SLOPES ARE AT 1.5:1

### ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	510	0	Topsoil is not included in Pad Cut	510
PIT	640	0		640
TOTALS	1150	0	130	1150

SURVEYED BY: T.H. DATE SURVEYED: 02-28-08  
DRAWN BY: L.C.S. DATE DRAWN: 03-12-08  
SCALE: 1" = 50' REVISED:

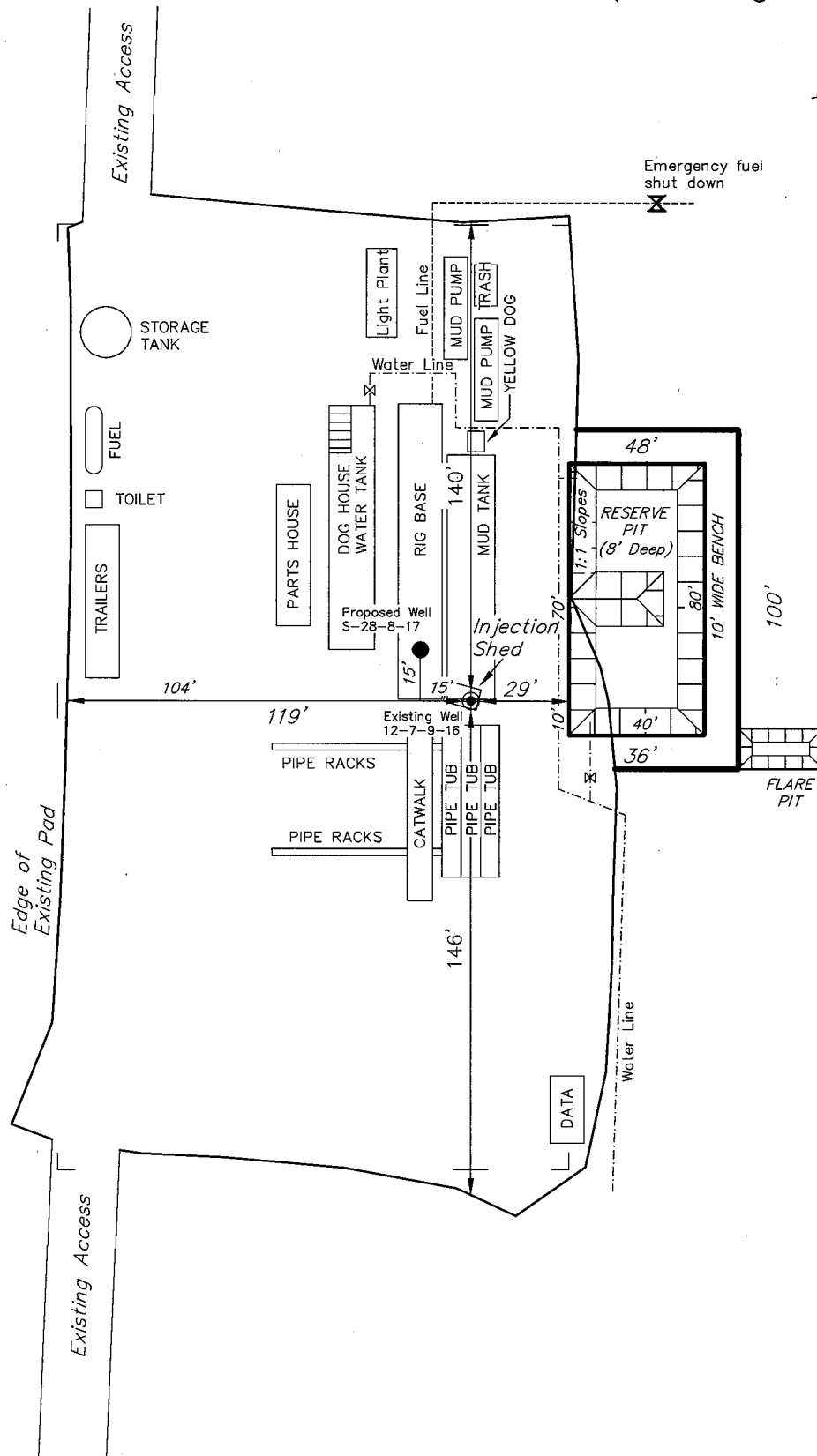
**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

GREATER BOUNDARY S-28-8-17 (Proposed Well)

GREATER BOUNDARY 15-28-8-17 (Existing Well)



Note:  
Flare pit is to be located at least 80' from well head.

SURVEYED BY: T.H.	DATE SURVEYED: 02-25-08
DRAWN BY: L.C.S.	DATE DRAWN: 03-12-08
SCALE: 1" = 50'	REVISED:

**Tri State**  
Land Surveying, Inc.  
(435) 781-2501  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# Newfield Production Company Proposed Site Facility Diagram

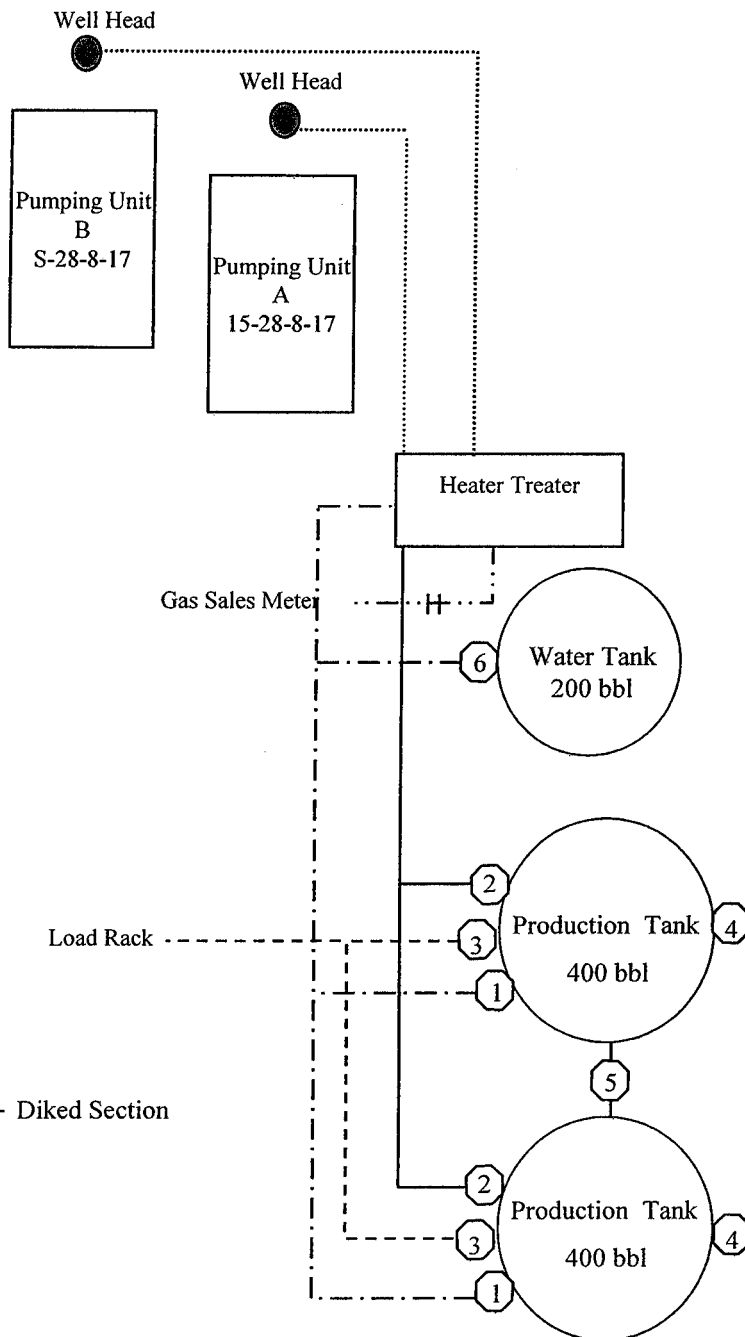
Greater Boundary II Federal S-28-8-17

From the 15-28-8-17 Location

SW/SE Sec. 28 T8S, R17E

Duchesne County, Utah

UTU-76241



Site Security Plan is held at the Pleasant Valley Office, Duchesne County, Utah

## Production Phase:

- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5, and 6 sealed open

## Sales Phase:

- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

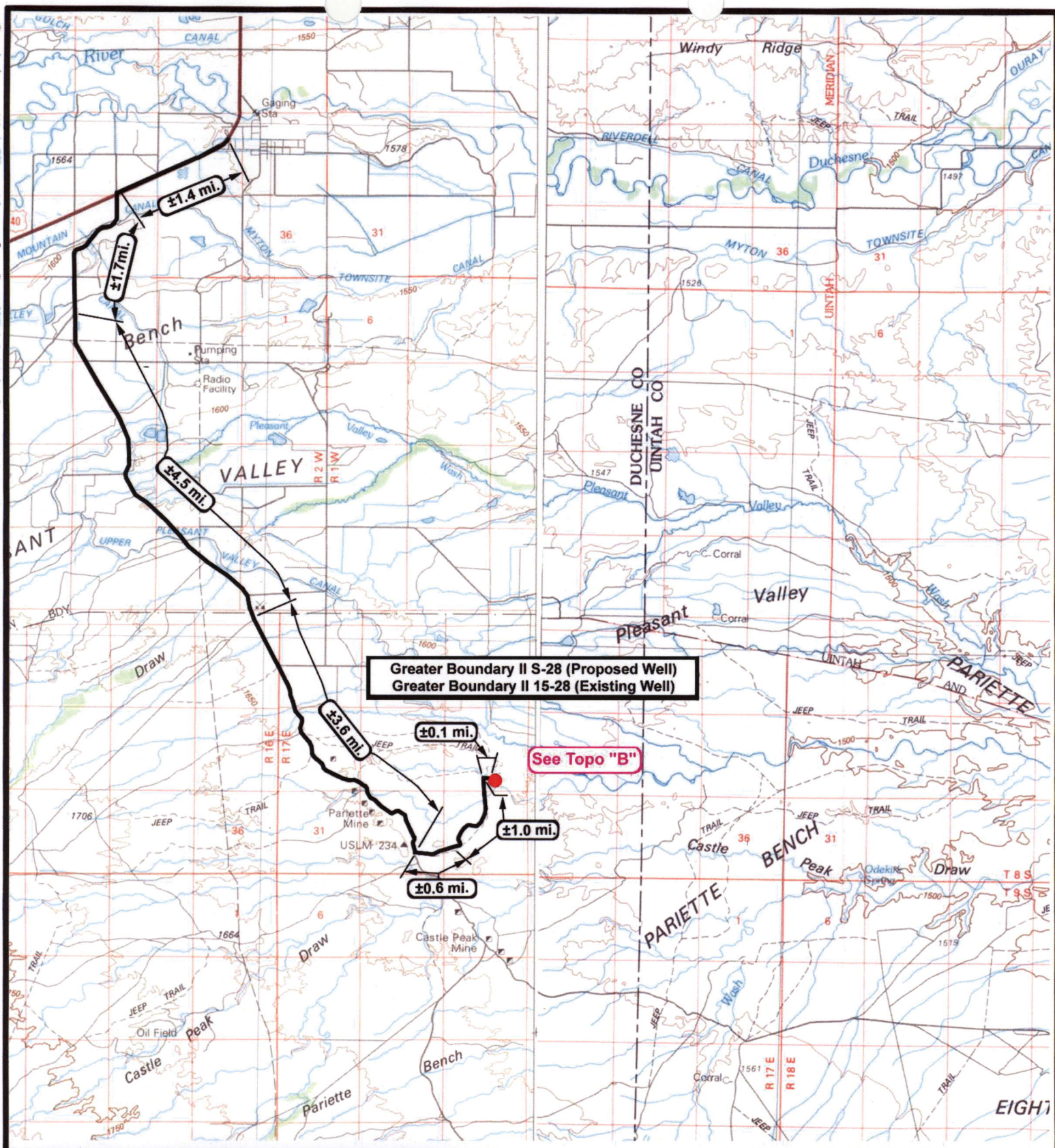
## Draining Phase:

- 1) Valves 1 and 6 open

## Legend

Emulsion Line	.....
Load Rack	-----
Water Line	- - - - -
Gas Sales	- . . . .
Oil Line	_____





**NEWFIELD**  
Exploration Company

Greater Boundary II S-28-8-17 (Proposed Location)  
Greater Boundary II 15-28-8-17 (Existing Location)  
Pad Location SWSE SEC. 28, T8S, R17E, S.L.B.&M.



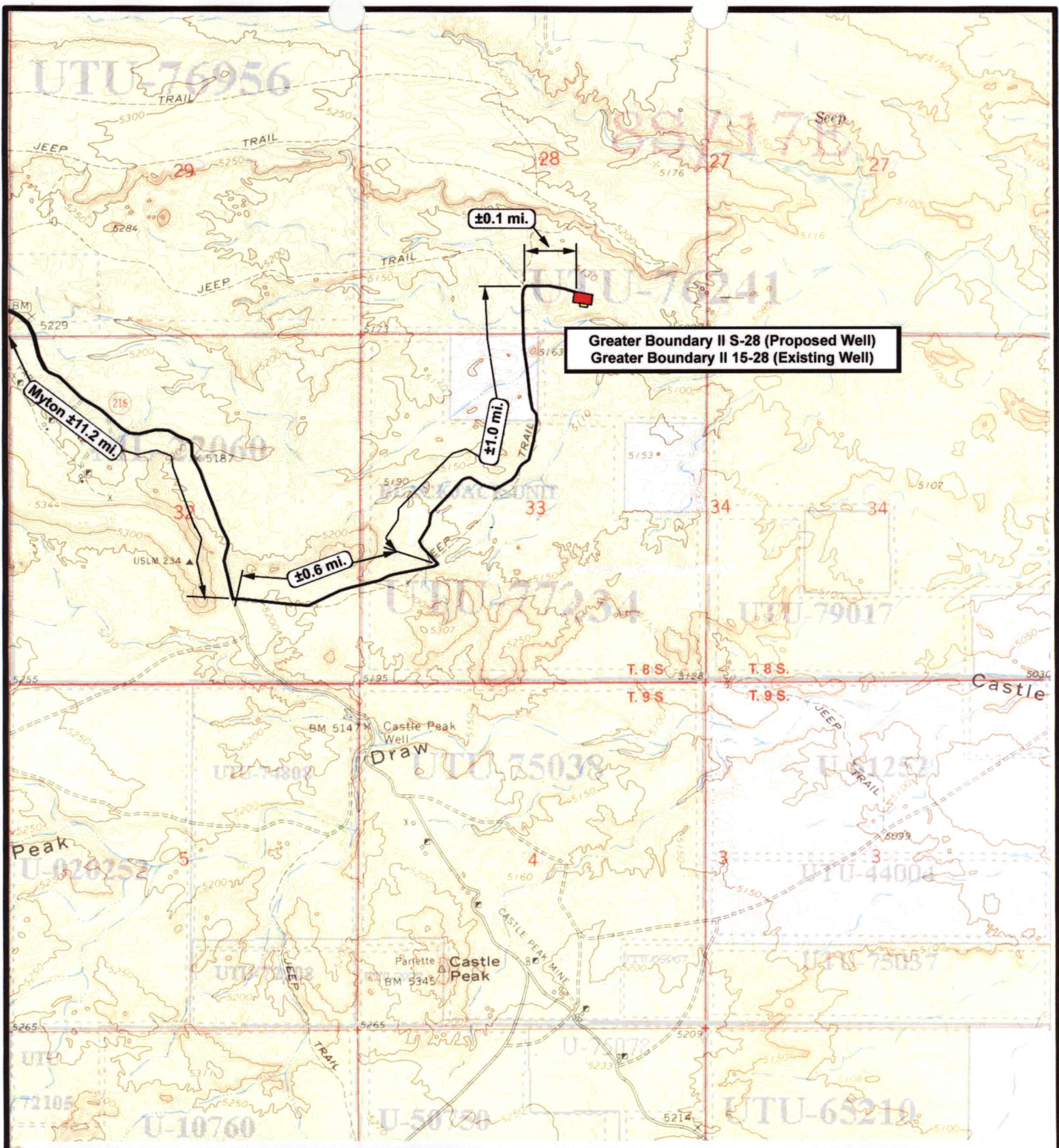
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

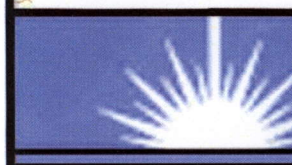


SCALE: 1:100,000  
DRAWN BY: MW  
DATE: 03-18-2008

**Legend**

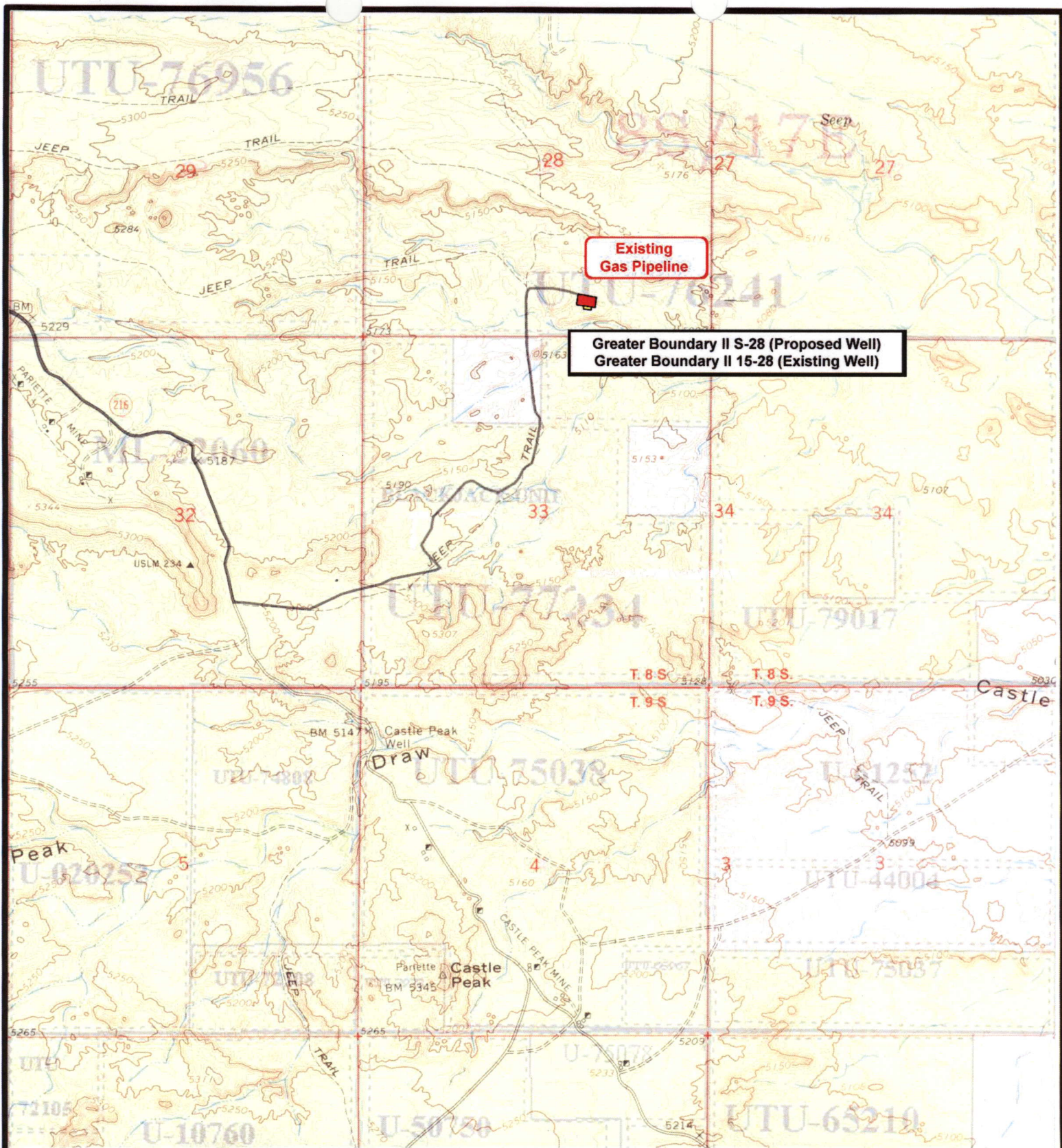
Existing Road






 <p><b>NEWFIELD</b> Exploration Company</p> <p><b>Greater Boundary II S-28-8-17 (Proposed Well)</b>  <b>Greater Boundary II 15-28-8-17 (Existing Well)</b>  <b>Pad Location SWSE SEC. 28, T8S, R17E, S.L.B.&amp;M.</b></p>		 <p><b>Tri-State</b> Land Surveying Inc. (435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078</p> <p>SCALE: 1" = 2,000'          DRAWN BY: mmw          DATE: 03-18-2008</p>	<p><b>Legend</b></p> <p>Existing Road</p> <p><b>TOPOGRAPHIC MAP</b></p> <p><b>"B"</b></p>
--	---	---	---







**NEWFIELD**  
Exploration Company


**Greater Boundary II S-28-8-17 (Proposed Well)**  
**Greater Boundary II 15-28-8-17 (Existing Well)**  
**Pad Location SWSE SEC. 28, T8S, R17E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
 DRAWN BY: MW  
 DATE: 03-18-2008

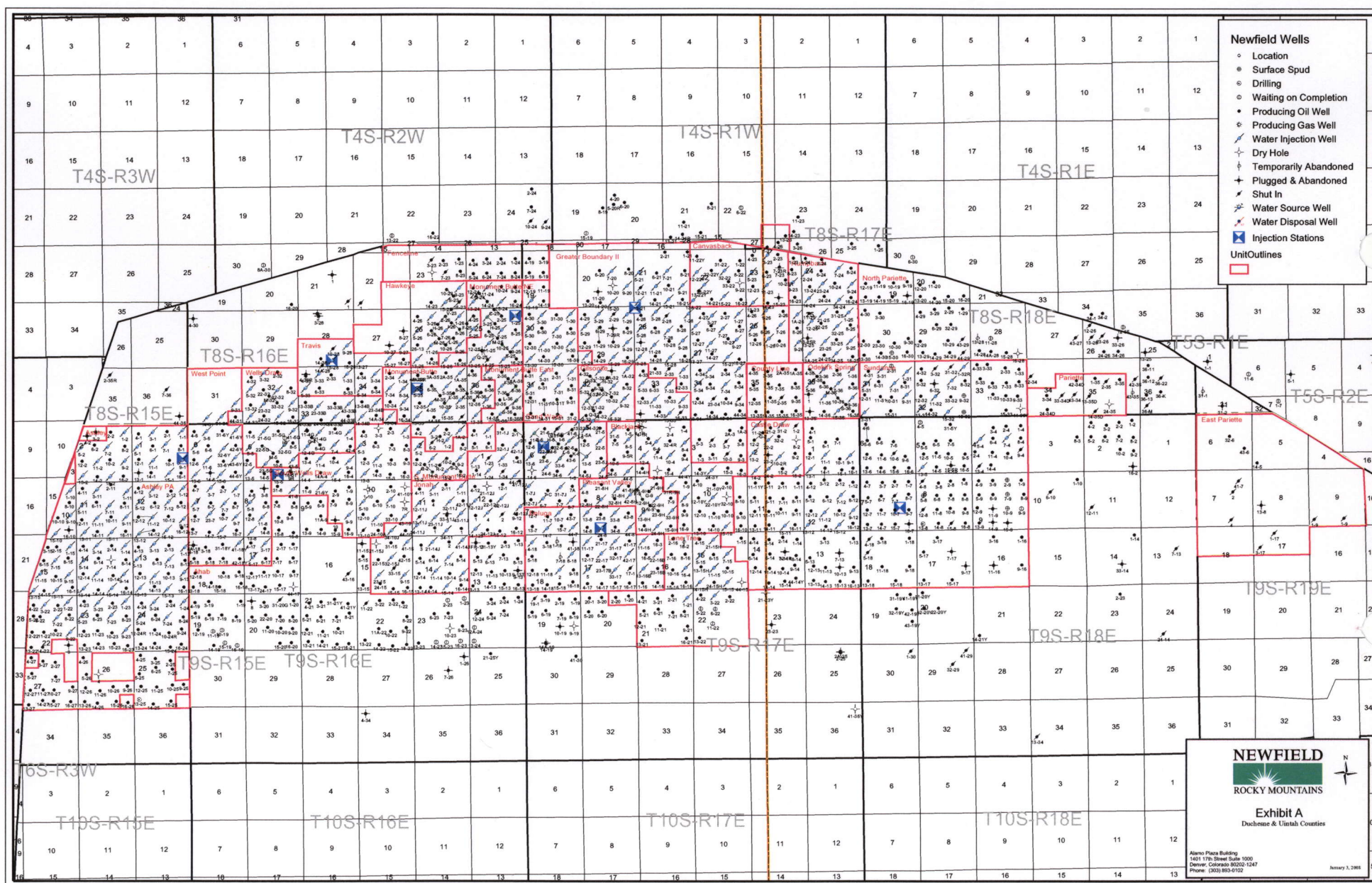
**Legend**

 Roads

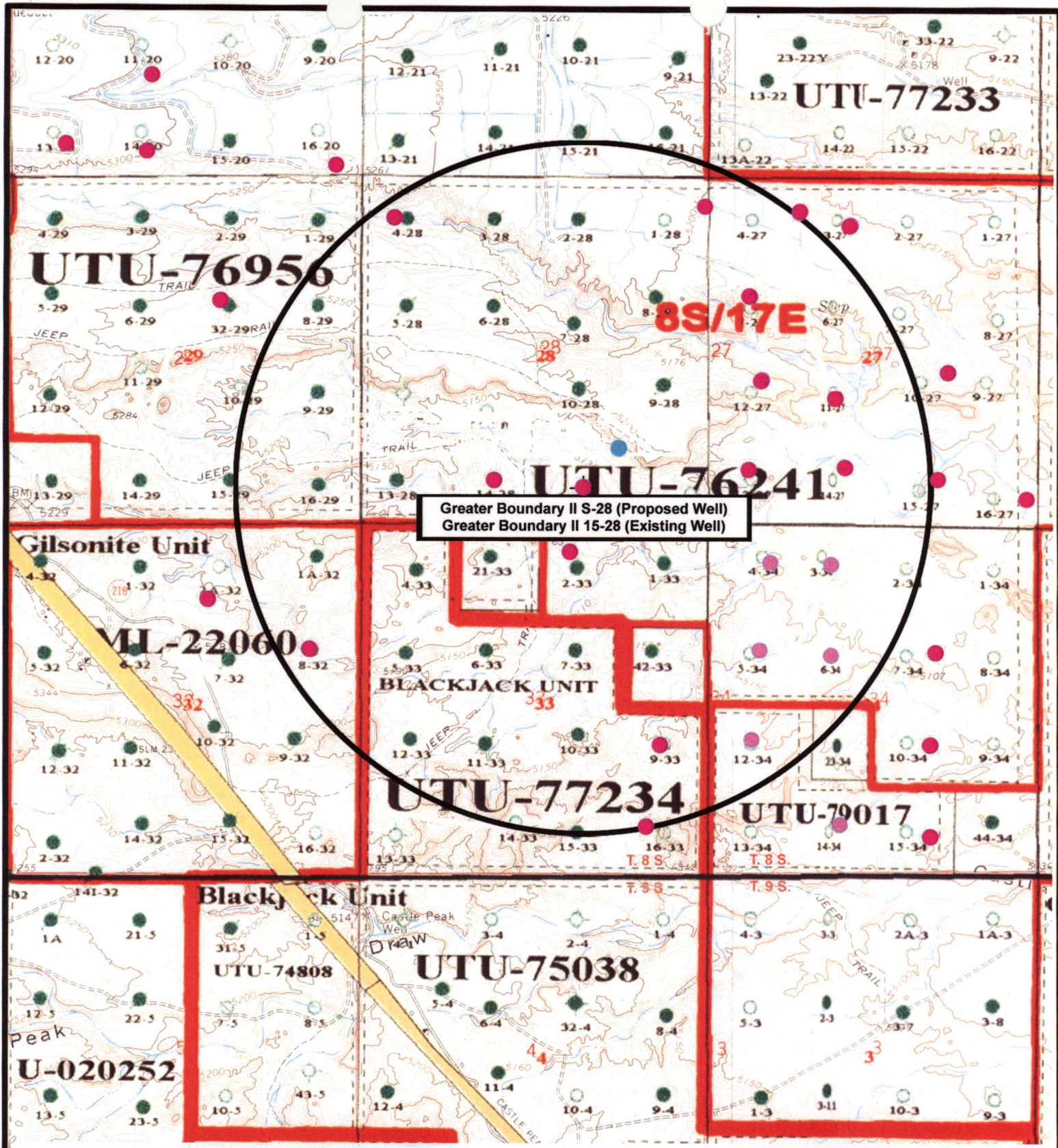
**TOPOGRAPHIC MAP**

**"C"**











# 2-M SYSTEM

Blowout Prevention Equipment Systems

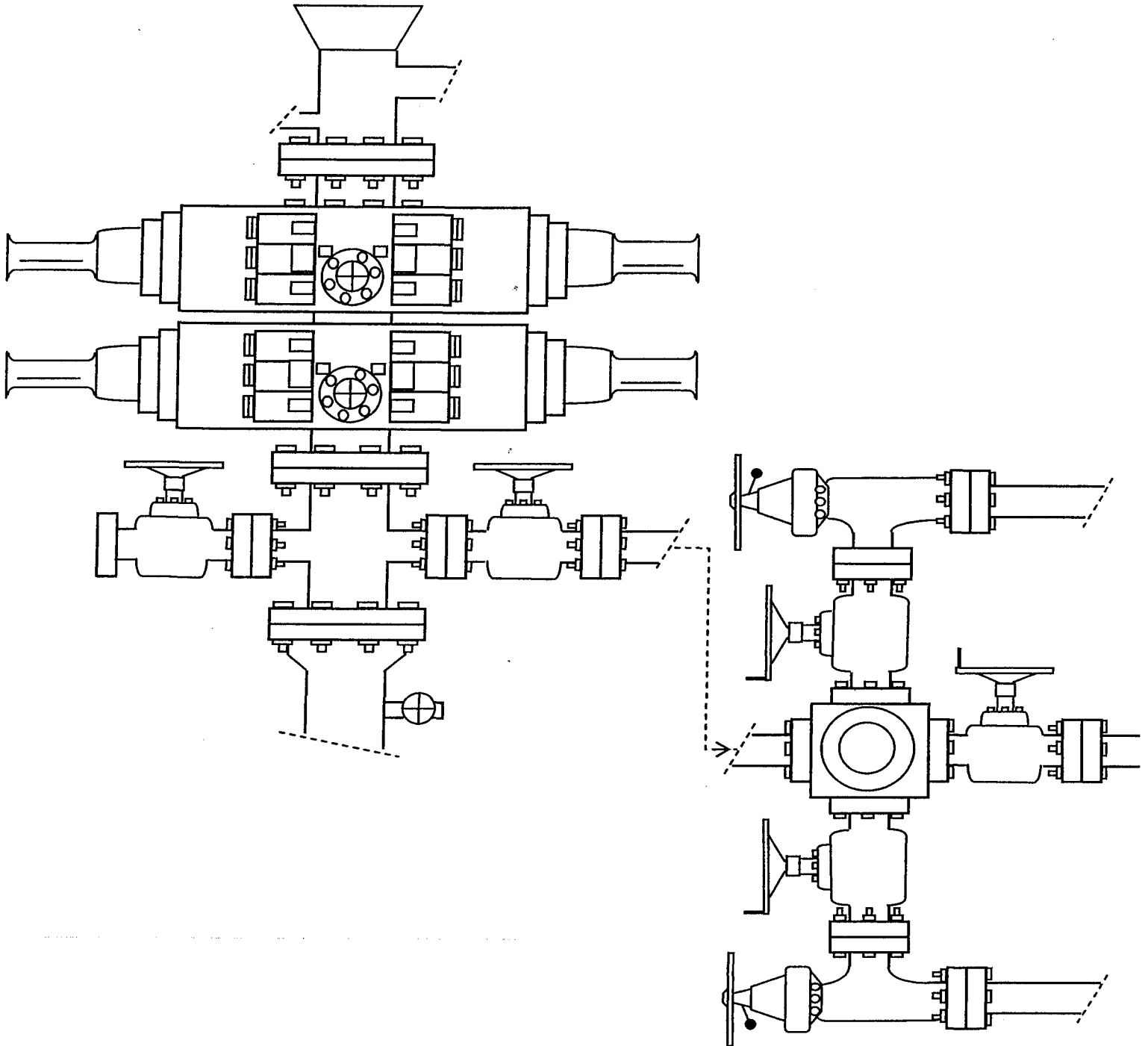


EXHIBIT C

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 04/29/2008

API NO. ASSIGNED: 43-013-33976

WELL NAME: GB II FED S-28-8-17

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SWSE 28 080S 170E

SURFACE: 0525 FSL 1882 FEL

BOTTOM: 1290 FSL 1265 FEL

COUNTY: DUCHESNE

LATITUDE: 40.08323 LONGITUDE: -110.0081

UTM SURF EASTINGS: 584571 NORTHINGS: 4437256

FIELD NAME: MONUMENT BUTTE ( 105 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-76241

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. WYB0000493 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 43-10136 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

☒ R649-2-3.  
Unit: GREATER BOUNDARY II (GR)  
☒ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
☒ R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 225-04  
Eff Date: 9-22-2004  
Siting: Suspends General Siting  
☒ R649-3-11. Directional Drill

COMMENTS:

*Sop, Separate File*

STIPULATIONS:

*1-Section Approval*



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

May 2, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2008 Plan of Development Greater Boundary  
Unit, Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2008 within the Greater Boundary Unit, Duchesne County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-013-33976	GB II Fed S-28-8-17	Sec 28 T08S R17E 0525 FSL 1882 FEL
	BHL Sec 28 T08S R17E	1290 FSL 1265 FEL

We have no objections to permitting the well so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File - Greater Boundary Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:5-2-08



May 1, 2008

State of Utah, Division of Oil, Gas and Mining  
ATTN: Diana Mason  
PO Box 145801  
Salt Lake City, UT 84114-5801

RE: Directional Drilling  
**Greater Boundary II Federal S-28-8-17**  
Greater Boundary II Unit  
UTU-77098X  
Surface Hole: T8S R17E, Section 28: SWSE  
525' FSL 1882' FEL  
Bottom Hole: T8S R17E, Section 28  
1290' FSL 1265' FEL  
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated April 22, 2008, a copy of which is attached, for the above referenced well, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole location and bottom hole location of this well are both within the boundaries of the Greater Boundary II Federal Unit UTU-77098X. Newfield certifies that it is the Greater Boundary II Unit Operator and all lands within 460 feet of the entire directional well bore are within the Greater Boundary II Unit.

NPC is permitting this well as a directional well in order to minimize surface disturbance. By directionally drilling from the referenced surface location, NPC will be able to utilize the existing roads and pipelines in this area.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at [reveland@newfield.com](mailto:reveland@newfield.com). Your consideration of this matter is greatly appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Roxann Eveland".

Roxann Eveland  
Land Associate

RECEIVED  
MAY 05 2008  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

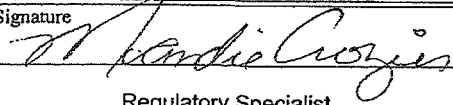
5. Lease Serial No. <b>UTU-76241</b>
6. If Indian, Allottee or Tribe Name <b>N/A</b>
7. If Unit or CA Agreement, Name and No. <b>Greater Boundary II Unit</b>
8. Lease Name and Well No. <b>Greater Boundary II Federal S-28-8-17</b>
9. API Well No.
10. Field and Pool, or Exploratory <b>Monument Butte</b>
11. Sec., T., R., M., or Blk. and Survey or Area <b>Sec. 28, T8S R17E</b>
12. County or Parish <b>Duchesne</b>
13. State <b>UT</b>

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		
2. Name of Operator <b>Newfield Production Company</b>		
3a. Address <b>Route #3 Box 3630, Myton UT 84052</b>	3b. Phone No. (include area code) <b>(435) 646-3721</b>	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>SW/SE 525' FSL 1882' FEL</b> At proposed prod. zone <b>1290' FSL 1265' FEL</b>		
14. Distance in miles and direction from nearest town or post office* <b>Approximatley 12.9 miles southeast of Myton, Utah</b>		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 2610' flse, 2610' flunit	16. No. of Acres in lease <b>1880.00</b>	17. Spacing Unit dedicated to this well <b>20 Acres</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1406'	19. Proposed Depth <b>6360'</b>	20. BLM/BIA Bond No. on file <b>WYB000493</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>5136' GL</b>	22. Approximate date work will start* <b>3rd Quarter 2008</b>	23. Estimated duration <b>Approximately seven (7) days from spud to rig release.</b>

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) <b>Mandie Crozier</b>	Date <b>4/22/08</b>
Title <b>Regulatory Specialist</b>		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

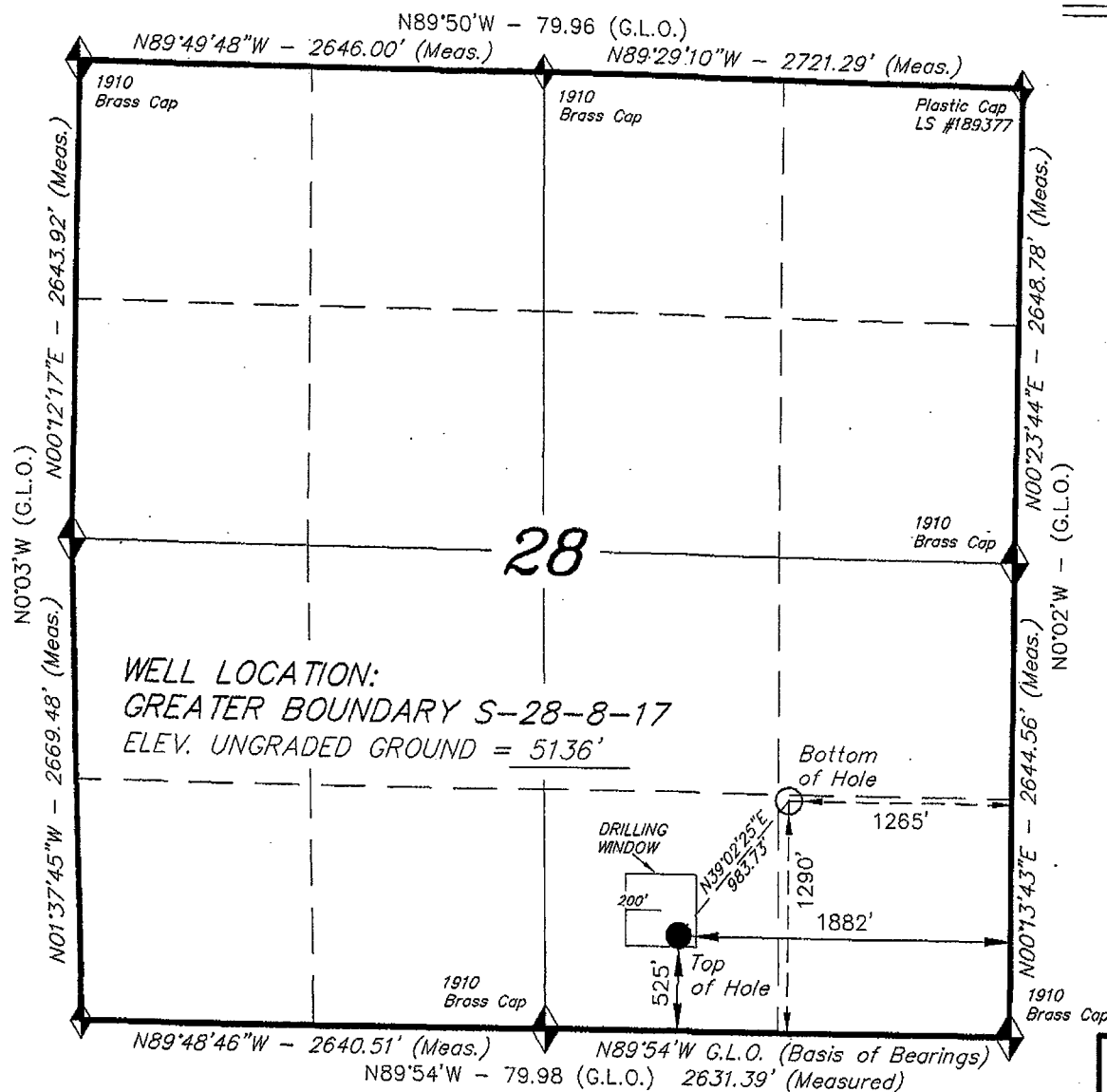
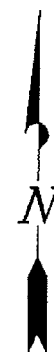
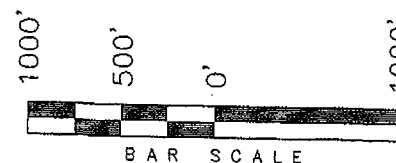
\*(Instructions on reverse)

RECEIVED  
MAY 05 2008  
DIV. OF OIL, GAS & MINING

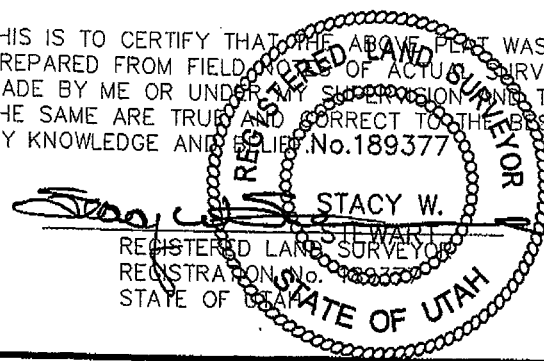
**T8S, R17E, S.L.B.&M.**

**NEWFIELD PRODUCTION COMPANY**

WELL LOCATION, GREATER BOUNDARY  
S-28-8-17, LOCATED AS SHOWN IN THE  
SW 1/4 SE 1/4 OF SECTION 28, T8S,  
R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377



◆ = SECTION CORNERS LOCATED  
BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

GREATER BOUNDARY S-28-8-17  
(Surface Location) NAD 83  
LATITUDE = 40° 04' 59.26"  
LONGITUDE = 110° 00' 31.76"

**TRI STATE LAND SURVEYING & CONSULTING**  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 02-25-08	SURVEYED BY: T.H.
DATE DRAWN: 03-11-08	DRAWN BY: L.C.S.
REVISED:	SCALE: 1" = 1000'





JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

May 5, 2008

Newfield Production Company  
Rt. #3, Box 3630  
Myton, UT 84052

Re: Greater Boundary II Federal S-28-8-17 Well, Surface Location 525' FSL, 1882' FEL, SW SE, Sec. 28, T. 8 South, R. 17 East, Bottom Location 1290' FSL, 1265' FEL, SE SE, Sec. 28, T. 8 South, R. 17 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33976.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal Office

Operator: Newfield Production Company  
Well Name & Number Greater Boundary II Federal S-28-8-17  
API Number: 43-013-33976  
Lease: UTU-76241

Surface Location: SW SE      Sec. 28      T. 8 South      R. 17 East  
Bottom Location: SE SE      Sec. 28      T. 8 South      R. 17 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281    (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

# RECEIVED

APR 2 9 2008

Form 3160-3  
(September 2001)

BLM VERNAL, UTAH

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-76241
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Greater Boundary II Unit
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Greater Boundary II Federal S-28-8-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-33976
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SW/SE 525' FSL 1882' FEL At proposed prod. zone SE/SE 1290' FSL 1265' FEL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 12.9 miles southeast of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 28, T8S R17E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 2610' f/lse, 2610' f/unit	16. No. of Acres in lease 1880.00	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1406'	19. Proposed Depth 6360'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5136' GL	22. Approximate date work will start* 3rd Quarter 2008	23. Estimated duration Approximately seven (7) days from spud to rig release.

### 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 4/22/08
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) Terry Kuzma	Date JAN 16 2009
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

RECEIVED

FEB 04 2009

DIV. OF OIL, GAS & MINING

NOS 03-21-2008

AFMSS# 08PPD681A

UDOGM

CONDITIONS OF APPROVAL ATTACHED

NOTICE OF APPROVAL



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Newfield Production Company Location: SWSE, Sec.28,T8S,R17E  
Well No: Greater Boundary II Federal S-28-8-17 Lease No: UTU-76241  
API No: 43-013-33976 Agreement: Greater Boundary II Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	(435) 828-3546
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	(435) 828-4029
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	(435) 828-7381
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
NRS/Enviro Scientist:	David Gordon	(435) 781-4424	
NRS/Enviro Scientist:	Christine Cimiluca	(435) 781-4475	

Fax: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**SITE SPECIFIC CONDITIONS OF APPROVAL**

NONE

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- NONE

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (1/4, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or



data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-76241			
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>			
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GREATER BOUNDARY II (GR)			
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> GB II FED S-28-8-17			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0525 FSL 1882 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 28 Township: 08.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013339760000			
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE			
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 5/4/2009  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> APD EXTENSION          OTHER: _____       </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: _____
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: _____			
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Newfield requests permission to extend the Permit to Drill this well for one year.					
<b>Approved by the Utah Division of Oil, Gas and Mining</b>					
<b>Date:</b> <u>May 11, 2009</u>					
<b>By:</b>					
<b>NAME (PLEASE PRINT)</b> Mandie Crozier	<b>PHONE NUMBER</b> 435 646-4825	<b>TITLE</b> Regulatory Tech			
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/4/2009				

**RECEIVED** May 04, 2009



## The Utah Division of Oil, Gas, and Mining

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43013339760000

**API:** 43013339760000

**Well Name:** GB II FED S-28-8-17

**Location:** 0525 FSL 1882 FEL QTR SWSE SEC 28 TWP 080S RNG 170E MER S

**Company Permit Issued to:** NEWFIELD PRODUCTION COMPANY

**Date Original Permit Issued:** 5/5/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Mandie Crozier

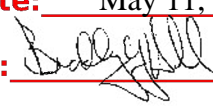
**Date:** 5/5/2009

**Title:** Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY

**Date:** May 11, 2009

**By:**

**RECEIVED** May 04, 2009

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-76241			
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>			
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GREATER BOUNDARY II (GR)			
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> GB II FED S-28-8-17			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0525 FSL 1882 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 28 Township: 08.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013339760000			
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE			
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 5/4/2009  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> APD EXTENSION          OTHER: _____       </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: _____
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: _____			
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Newfield requests permission to extend the Permit to Drill this well for one year.					
<b>Approved by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> May 11, 2009 <b>By:</b> 					
<b>NAME (PLEASE PRINT)</b> Mandie Crozier	<b>PHONE NUMBER</b> 435 646-4825	<b>TITLE</b> Regulatory Tech			
<b>SIGNATURE</b> N/A		<b>DATE</b> 5/4/2009			

**RECEIVED** May 04, 2009





## The Utah Division of Oil, Gas, and Mining

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43013339760000

**API:** 43013339760000

**Well Name:** GB II FED S-28-8-17

**Location:** 0525 FSL 1882 FEL QTR SWSE SEC 28 TWP 080S RNG 170E MER S

**Company Permit Issued to:** NEWFIELD PRODUCTION COMPANY

**Date Original Permit Issued:** 5/5/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Mandie Crozier

**Date:** 5/5/2009

**Title:** Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY

**Date:** May 11, 2009

**By:**

**RECEIVED** May 04, 2009

Spud  
BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig

Name/# Ross #29 Submitted By Alvin

Nielsen Phone Number 435-823-7468

Well Name/Number Greater Boundary II Fed S-28-8-17

Qtr/Qtr SW/SE Section 28 Township 8S Range 17E

Lease Serial Number UTU-76241

API Number 43-013-33976

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 6/26/09 9:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

☒ Date/Time 6/26/09 3:00 AM ☐ PM

BOPE

☐ Initial BOPE test at surface casing point

- ☐ BOPE test at intermediate casing point  
☐ 30 day BOPE test  
☐ Other

Date/Time 6/26/09 9:00 AM ☒  
PM ☐

Remarks Ross Rig # 29 spud the Greater Boundary II Fed S-28-  
8-17 on 6/26/09 @ 9:00 AM & Run 85/8 casing on 6/26/09 @  
3:00 PM

\_\_\_\_\_  
\_\_\_\_\_

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM -FORM 6

OPERATOR: **NEWFIELD PRODUCTION COMPANY**  
ADDRESS: **RT. 3 BOX 3630**  
**MYTON, UT 84052**

OPERATOR ACCT. NO. **N2695**

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391 ✓	4301333976	GREATER BOUNDARY II S-28-8-17	SWSE	28	8S	17E	DUCHESNE	6/26/2009	6/30/09
WELL 1 COMMENTS: <i>GRRV</i> <i>BHL=SESE</i>											
A	99999	17328	4301333408	FEDERAL 3-28-9-16	NENW	28	9S	16E	DUCHESNE	6/22/2009	6/30/09
<i>GRRV</i>											
WELL 5 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)  
A - 1 new entity for new well (single well only)  
B - well to existing entity (group or unit well)  
C - from one existing entity to another existing entity  
D - well from one existing entity to a new entity  
E - ther (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

**RECEIVED**  
**JUN 30 2009**  
**DIV. OF OIL, GAS & MINING**

*[Signature]*  
Signature  
Jentri Park  
Production Clerk  
06/30/09  
Date



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

525' FSL 1882' FEL

SWSE Section 28 T8S R17E

5. Lease Serial No.

USA UTU-76241

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GREATER BOUNDARY II

8. Well Name and No.

GRTR BNDRY II S-28-8-17

9. API Well No.

4301333976

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 6/26/09 MIRU Ross Rig # 21. Spud well @ 9:00 AM. Drill 310' of 12 1/4" hole with air mist. TIH W/ 8 Jt's 8 5/8" J-55 24 # csgn. Set @ 313.01 KB On 7/8/09 cement with 160 sks of class "G" w/ 2% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 4 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Alvin Nielsen

Signature

*Alvin Nielsen*

Title

Drilling Foreman

Date

07/09/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office

Date

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

**RECEIVED**

**JUL 13 2009**

**DIV. OF OIL, GAS & MINING**

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8" CASING SET AT 313.01

LAST CASING 8 5/8" SET AT 313.01  
 DATUM 12  
 DATUM TO CUT OFF CASING 12  
 DATUM TO BRADENHEAD FLANGE 12  
 TD DRILLER 310 LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4"

OPERATOR Newfield Exploration Company  
 WELL GRTR BNDRY II S-28-8-17  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Ross Rig # 21

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION		WT / FT	GRD	THREAD	CONDT	LENGTH
1		92 csg head					A	0.95
8	8 5/8"	ST&C csg ( Shoe jt 37.55 )		24	J-55	STC	A	301.16
1	8 5/8"	Guide shoe					A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING				303.01
TOTAL LENGTH OF STRING		303.01	8	LESS CUT OFF PIECE				2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG				12
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH				<b>313.01</b>
TOTAL		301.16	8	} COMPARE				
TOTAL CSG. DEL. (W/O THRDS)		301.16	8					
TIMING								
BEGIN RUN CSG.	Spud	9:00 AM	6/26/2009	GOOD CIRC THRU JOB <u>Yes</u>				
CSG. IN HOLE		4:00 PM	6/26/2009	Bbls CMT CIRC TO SURFACE <u>4</u>				
BEGIN CIRC		9:47 AM	7/8/2009	RECIPROCATED PIPE <u>No</u>				
BEGIN PUMP CMT		9:53 AM	7/8/2009	BUMPED PLUG TO <u>540</u>				
BEGIN DSPL. CMT		10:03 AM	7/8/2009					
PLUG DOWN		10:10 AM	7/8/2009					

[illegible]

COMPANY REPRESENTATIVE

DATE **7/8/2009**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

525' FSL 1882' FEL

SWSE Section 28 T8S R17E

5. Lease Serial No.

USA UTU-76241

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GREATER BOUNDARY II

8. Well Name and No.

GRTR BNDRY II S-28-8-17

9. API Well No.

4301333976

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 7/15/09 MIRU NDSI Rig # 2. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 287'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6,418' & a TVD of 6283. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 160 jt's of 5.5 J-55, 15.5# csgn. Set @ 6400.30' / KB. Cement with 290 sks cement mixed @ 11.0 ppg & 3.54 yld. Then 400 sks cement mixed @ 14.4 ppg & 1.24 yld. With 43 bbls cement returned to pit. Nipple down Bop's. Drop slips @ 82,000 #'s tension. Release rig 4:30 PM 7/21/09

**RECEIVED**

**AUG 04 2009**

**DIV. OF OIL, GAS & MINING**

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Alvin Nielsen

Signature

*Alvin Nielsen*

Title

Drilling Foreman

Date

07/22/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office

Date

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 6400.3

LAST CASING 8 5/8" SET AT 313.01  
 DATUM 12  
 DATUM TO CUT OFF CASING 12  
 DATUM TO BRADENHEAD FLANGE 12  
 TD DRILLER 6418 LOGC 6405  
 HOLE SIZE 7 7/8"

OPERATOR Newfield Exploration Company  
 WELL GRTR BNDRY II S-28-8-17  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI # 2

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION		WT / FT	GRD	THREAD	CONDT	LENGTH
1	5 1/2"	Landing jt		15.5	J-55	LTC	A	14
160	5 1/2"	LT&C casing		15.5	J-55	LTC	A	6347.32
1	5 1/2"	Float collar					A	0.6
1	5 1/2"	LT&C casing		15.5	J-55	LTC	A	39.73
1	5 1/2"	Guide shoe					A	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING				
TOTAL LENGTH OF STRING		6402.3		LESS CUT OFF PIECE				
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG				
PLUS FULL JTS. LEFT OUT		197.45	5	CASING SET DEPTH				
TOTAL		6584.5	5	} COMPARE				
TOTAL CSG. DEL. (W/O THRDS)		6584.5	166					
TIMING								
BEGIN RUN CSG.	Spud	5:00 AM	7/21/2009	GOOD CIRC THRU JOB Yes				
CSG. IN HOLE		8:30 AM	7/21/2009	Bbls CMT CIRC TO SURFACE 43				
BEGIN CIRC		8:30 AM	7/21/2009	RECIPROCATED PIPE Yes				
BEGIN PUMP CMT		10:19 AM	7/21/2009	BUMPED PLUG TO 2151				
BEGIN DSPL. CMT		11:17 AM	7/21/2009					
PLUG DOWN		11:43 AM	7/21/2009					



[illegible]

COMPANY REPRESENTATIVE

## Alvin Nielsen

DATE 7/21/2009

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-76241

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
GREATER BOUNDARY II

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER:  
GRTR BNDRY II S-28-8-17

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301333976

3. ADDRESS OF OPERATOR:  
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER  
435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 525' FSL 1882' FEL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWSE, 28, T8S, R17E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Weekly Status Report
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  09/08/2009			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 08/12/09, attached is a daily completion status report.

NAME (PLEASE PRINT) Jenter Park

TITLE Production Clerk

SIGNATURE

DATE 09/08/2009

(This space for State use only)

RECEIVED

SEP 09 2009

DIV. OF OIL, GAS & MINING

**Daily Activity Report****Format For Sundry****GRTR BNDRY II S-28-8-17****6/1/2009 To 10/30/2009****8/3/2009 Day: 1****Completion**

Rigless on 8/3/2009 - CBL/Perforate 1st stage. - Instal frac head & Cameron BOP's. RU Hot Oiler truck & test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC. WLT w/ mast & run CBL under pressure. WLTD @ 6302' & cement top @ 90'. Perforate CP3 sds @ 6091-94', 6058-60', CP2 sds @ 6021-23', 5979-80', CP1 sds @ 5845-48' w/ 3-1/8" Slick Guns (19 gram, .49"EH, 120°) w/ 3 spf for total of 36 shots. RD WLT. SIFN w/ 151 bbls EWTR.

**Daily Cost:** \$0**Cumulative Cost:** \$12,762

---

**8/6/2009 Day: 2****Completion**

Rigless on 8/6/2009 - Frac well. Flow well back. - Stage #2: RU Perforators LLC. WLT, crane & lubricator. RIH w/ Weatherford (6K) composite flow through frac plug & 3', 7' perf guns. Set plug @ 5905'. Perforate LODC sds @ 5845-48', 5818-25' w/ 3-1/8" Port Guns (11g, .37"EH, 120°) w/ 3 spf for total of 30 shots. RU BJ & frac w/ 15,076#'s of sand in 299 bbls of fluid. Open well w/ 1302 psi on casing. Perfs broke down @ 1820 psi back to 1827 psi w/ 3 bbls @ 4 bpm. ISIP was 1734 w/.73FG. 1 min was 1566. 4 min was 1465. Pump 30 gals of Techni Hib chemical @ 4% by volume. Treated @ ave pressure of 2457 w/ ave rate of 26 bpm w/ 6 ppg sand. Spot 12 bbls of 15% HCL in flush for next stage. ISIP was 2328 w/.83FG. 5 min was 2245. 10 min was 2174. 15 min was 2152. 1148 Bbls EWTR. Leave pressure on well. See stage #3. - Stage #3: RU WLT. RIH w/ frac plug & 3', 2', 2', 3' perf guns. Set plug @ 5640'. Perforate A1 sds @ 5545-48', B2 sds @ 5453-56', 5421-23', 5396-98' w/ 3 spf for total of 30 shots. RU BJ & frac w/ 30,292#'s of sand in 413 bbls of fluid. Open well w/ 2006 psi on casing. Perfs broke down @ 2942 psi back to 1932 psi w/ 3 bbls @ 4 bpm. Pressure to low to stop. Pump 30 gals of Techni Hib chemical @ 4% by volume. Treated @ ave pressure of 3107 w/ ave rate of 41 bpm w/ 6 ppg sand. Spot 12 bbls of 15% HCL in flush for next stage. ISIP was 1893 w/.78FG. 5 min was 1759. 10 min was 1692. 15 min was 1664. 1561 Bbls EWTR. Leave pressure on well. See stage #4. - Stage #1: RU BJ Services "Ram Head" frac flange. RU BJ & frac CP sds down casing w/ 85,005#'s of sand in 849 bbls of fluid. Open well w/ 0 psi on casing. Perfs broke down @ 3778 psi back to 3300 psi w/ 5 bbls @ 3 bpm. Pump 30 gals of Techni Hib chemical @ 4% by volume @ 7 bpm @ 2450 psi. ISIP was 1413 w/.67FG. 15 min was 944 psi. 30 min was 875. 45 min was 821. 60 min was 786. Treated @ ave pressure of 3124 w/ ave rate of 41 bpm w/ 6 ppg sand. Spot 12 bbls of 15% HCL in flush for next stage. ISIP was 1755 w/.73FG. 5 min was 1621. 10 min was 1525. 15 min was 1468. 849 Bbls EWTR. Leave pressure on well. See stage #2. - Stage #4: RU WLT. RIH w/ frac plug & 10' perf gun. Set plug @ 5310'. Perforate C sds @ 5208-18' w/ 3 spf for total of 30 shots. RU BJ & frac w/ 42,097#'s of sand in 426 bbls of fluid. Open well w/ 1415 psi on casing. Perfs broke down @ 1666 psi back to 1624 psi w/ 3 bbls @ 4 bpm. Pressure to low to shut down. Pump 30 gals of Techni Hib chemical @ 4% by volume. Treated @ ave pressure of 2118 w/ ave rate of 26 bpm w/ 8 ppg sand. ISIP was 2613 w/.94FG. 5 min was 1772. 10 min was 1556. 15 min was 1523. 1987 Bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 5 hours & turned to oil w/ 800 bbls rec'd (2000#'s of sand). SIFN w/ 1187 bbls EWTR.

**Daily Cost:** \$0**Cumulative Cost:** \$81,561

---

**8/7/2009 Day: 3****Completion**

Nabors #823 on 8/7/2009 - MIRUSU. Drlg plugs. - MIRUSU. Open well w/ 400 psi on casing. RU Perforators LLC WLT w/ Lubricator. RIH w/ 5-1/2" Weatherford (6K) composite solid plug. Set plug @ 5110'. RD WLT. RU 4-3/4" used Chomp mill & x-over sub. Tally pickup & TIH w/ new J-55, 2-7/8" 6.5# tbg to tag plug @ 5110'. RU swivel, pump & tanks. Drlg out plug in 13 min. TIH w/ tbg to tag plug @ 5310'. Drlg out plug #1. TIH w/ tbg. Leave EOT @ 5320'. 1100 bbls EWTR. SIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$92,158

---

**8/11/2009 Day: 4****Completion**

Nabors #823 on 8/11/2009 - Drill out plugs & swab. - Check pressure on well, 100 psi csg & 0 psi tbg. Tag plug @ 5640'. Drill out plug in 30 min. TIH & tag plug @ 5905'. Drill out plug in 35 min. TIH & tag fill 6300', clean out to PBTD @ 6363'. Circulate well clean. RD power swivel. TOO H w/ 4- jts tbg. RU swab equipment. Made 14 swab runs w/ SFL @ surface & EFL @ 400'. Recovered 140 bbls ending w/ trace of oil & no show of sand. RD swab equipment. TIH w/ tbg & tag PBTD @ 6363' (no new fill). Circulate well clean. LD 6- jts tbg not needed for production. TOO H w/ 134- jts tbg. SWIFN. -

**Daily Cost:** \$0

**Cumulative Cost:** \$97,790

---

**8/12/2009 Day: 5****Completion**

Nabors #823 on 8/12/2009 - TIH w/ production tbg & rods, PWOP. - TOO H w/ 61- jts 2 7/8" tbg, LD bit & bit sub. TIH w/ production tbg as follows: 2 7/8" NC, 2- jts 2 7/8" J-55 6.5# 8rd EUE tbg, SN, 2- jts 2 7/8" tbg, TA, 191- jts 2 7/8" tbg. RD rig floor. ND BOPs. Set TA @ 6041' w/ 18,000# tension. NU wellhead. X-over for rods. Flush tbg w/ 60 BW. PU & prime Central Hydraulic 2 1/2" X 1 3/4" X 20' X 24' RHAC rod pump. PU rods as follows: 4- 1 1/2" weight rods, 239- 7/8" guided rods, 1- 6', 4' X 7/8" pony rods & 1 1/2" X 30' polished rod. RU pumping unit. W/ tbg full, stoke test pump w/ unit to 800 psi. RDMOSU. PWOP @ 4:30 pm w/ 144" SL & 4 SPM. 1100 BWTR. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$172,446

---

**Pertinent Files: Go to File List**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other: _____						5. Lease Serial No. <b>UTU-76241</b>																																																																																					
2. Name of Operator <b>NEWFIELD EXPLORATION COMPANY</b>						6. If Indian, Allottee or Tribe Name <b>NA</b>																																																																																					
3. Address <b>1401 17TH ST. SUITE 1000 DENVER, CO 80202</b>						7. Unit or CA Agreement Name and No. <b>GREATER BOUNDARY II</b>																																																																																					
3a. Phone No. (include area code) <b>(435)646-3721</b>						8. Lease Name and Well No. <b>GB FEDERAL S-28-8-17</b>																																																																																					
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface <b>525' FSL &amp; 1882' FEL (SW/SE) SEC. 28, T8S, R17E</b>  At top prod. interval reported below <b>BHL: 1457' FSL &amp; 1119' FEL (NE/SE) S-28 T08S R17E</b>  At total depth <b>6418'</b>						9. AFI Well No. <b>43-013-33976</b>																																																																																					
10. Field and Pool or Exploratory <b>MONUMENT BUTTE</b>						11. Sec., T., R., M., on Block and Survey or Area <b>SEC. 28, T8S, R17E</b>																																																																																					
12. County or Parish <b>DUCHESNE</b>						13. State <b>UT</b>																																																																																					
14. Date Spudded <b>06/26/2009</b>						15. Date T.D. Reached <b>07/21/2009</b>																																																																																					
16. Date Completed <b>08/12/2009</b> <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.						17. Elevations (DF, RKB, RT, GL)* <b>5136' GL 5148' KB</b>																																																																																					
18. Total Depth: MD <b>6418'</b> TVD <b>6283'</b>						19. Plug Back T.D.: MD <b>6363'</b> TVD <b>6229'</b>																																																																																					
20. Depth Bridge Plug Set: MD TVD						21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <input checked="" type="checkbox"/> DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND																																																																																					
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit copy)						23. Casing and Liner Record (Report all strings set in well)																																																																																					
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Hole Size</th> <th>Size/Grade</th> <th>Wt. (#/ft.)</th> <th>Top (MD)</th> <th>Bottom (MD)</th> <th>Stage Cementer Depth</th> <th>No. of Sk. &amp; Type of Cement</th> <th>Slurry Vol. (BBL)</th> <th>Cement Top*</th> <th>Amount Pulled</th> </tr> </thead> <tbody> <tr> <td>12-1/4"</td> <td>8-5/8" J-55</td> <td>24#</td> <td></td> <td>310'</td> <td></td> <td>160 CLASS G</td> <td></td> <td></td> <td></td> </tr> <tr> <td>7-7/8"</td> <td>5-1/2" J-55</td> <td>15.5#</td> <td></td> <td>6400'</td> <td></td> <td>290 PRIMLITE</td> <td></td> <td>90'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>400 50/50 POZ</td> <td></td> <td></td> <td></td> </tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>												Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled	12-1/4"	8-5/8" J-55	24#		310'		160 CLASS G				7-7/8"	5-1/2" J-55	15.5#		6400'		290 PRIMLITE		90'								400 50/50 POZ																																											
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled																																																																																		
12-1/4"	8-5/8" J-55	24#		310'		160 CLASS G																																																																																					
7-7/8"	5-1/2" J-55	15.5#		6400'		290 PRIMLITE		90'																																																																																			
						400 50/50 POZ																																																																																					
24. Tubing Record																																																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Size</th> <th>Depth Set (MD)</th> <th>Packer Depth (MD)</th> <th>Size</th> <th>Depth Set (MD)</th> <th>Packer Depth (MD)</th> <th>Size</th> <th>Depth Set (MD)</th> <th>Packer Depth (MD)</th> </tr> </thead> <tbody> <tr> <td>2-7/8"</td> <td>EOT @ 6172'</td> <td>TA @ 6041'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	2-7/8"	EOT @ 6172'	TA @ 6041'																																																																				
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)																																																																																			
2-7/8"	EOT @ 6172'	TA @ 6041'																																																																																									
25. Producing Intervals																																																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Formation</th> <th>Top</th> <th>Bottom</th> <th>Perforated Interval</th> <th>Size</th> <th>No. Holes</th> <th>Perf. Status</th> </tr> </thead> <tbody> <tr> <td>A) GREEN RIVER</td> <td></td> <td></td> <td>(CP3)CP2(CP1)see below</td> <td>.49"</td> <td>3</td> <td>36</td> </tr> <tr> <td>B) GREEN RIVER</td> <td></td> <td></td> <td>(LODC) 5845-48,5818-25'</td> <td>.37"</td> <td>3</td> <td>30</td> </tr> <tr> <td>C) GREEN RIVER</td> <td></td> <td></td> <td>(A1) &amp; (B2) see below</td> <td>.37"</td> <td>3</td> <td>30</td> </tr> <tr> <td>D) GREEN RIVER</td> <td></td> <td></td> <td>(C 5208-5218</td> <td>.37"</td> <td>3</td> <td>30</td> </tr> </tbody> </table>												Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status	A) GREEN RIVER			(CP3)CP2(CP1)see below	.49"	3	36	B) GREEN RIVER			(LODC) 5845-48,5818-25'	.37"	3	30	C) GREEN RIVER			(A1) & (B2) see below	.37"	3	30	D) GREEN RIVER			(C 5208-5218	.37"	3	30																																													
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status																																																																																					
A) GREEN RIVER			(CP3)CP2(CP1)see below	.49"	3	36																																																																																					
B) GREEN RIVER			(LODC) 5845-48,5818-25'	.37"	3	30																																																																																					
C) GREEN RIVER			(A1) & (B2) see below	.37"	3	30																																																																																					
D) GREEN RIVER			(C 5208-5218	.37"	3	30																																																																																					
26. Perforation Record																																																																																											
27. Acid, Fracture, Treatment, Cement Squeeze, etc.																																																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Depth Interval</th> <th>Amount and Type of Material</th> </tr> </thead> <tbody> <tr> <td>5845-6094'</td> <td>Frac CP sds down casing w/ 85,005#'s of sand in 849 bbls of fluid.</td> </tr> <tr> <td>5818-5848'</td> <td>Frac w/ 15,076#'s of sand in 299 bbls of fluid.</td> </tr> <tr> <td>5396-5548'</td> <td>Frac w/ 30,292#'s of sand in 413 bbls of fluid.</td> </tr> <tr> <td>5208-5218'</td> <td>Frac w/ 42,097#'s of sand in 426 bbls of fluid.</td> </tr> </tbody> </table>												Depth Interval	Amount and Type of Material	5845-6094'	Frac CP sds down casing w/ 85,005#'s of sand in 849 bbls of fluid.	5818-5848'	Frac w/ 15,076#'s of sand in 299 bbls of fluid.	5396-5548'	Frac w/ 30,292#'s of sand in 413 bbls of fluid.	5208-5218'	Frac w/ 42,097#'s of sand in 426 bbls of fluid.																																																																						
Depth Interval	Amount and Type of Material																																																																																										
5845-6094'	Frac CP sds down casing w/ 85,005#'s of sand in 849 bbls of fluid.																																																																																										
5818-5848'	Frac w/ 15,076#'s of sand in 299 bbls of fluid.																																																																																										
5396-5548'	Frac w/ 30,292#'s of sand in 413 bbls of fluid.																																																																																										
5208-5218'	Frac w/ 42,097#'s of sand in 426 bbls of fluid.																																																																																										
28. Production - Interval A																																																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Date First Produced</th> <th>Test Date</th> <th>Hours Tested</th> <th>Test Production</th> <th>Oil BBL</th> <th>Gas MCF</th> <th>Water BBL</th> <th>Oil Gravity Corr. API</th> <th>Gas Gravity</th> <th>Production Method</th> </tr> </thead> <tbody> <tr> <td>08/12/09</td> <td>08/16/08</td> <td>24</td> <td>→</td> <td>92</td> <td>0</td> <td>35</td> <td></td> <td></td> <td>Central Hydraulic 2 1/2" X 1 3/4" X 20' X 24' RHAC rod pump</td> </tr> <tr> <td>Choke Size</td> <td>Tbg. Press. Flwg. SI</td> <td>Csg. Press.</td> <td>24 Hr. Rate</td> <td>Oil BBL</td> <td>Gas MCF</td> <td>Water BBL</td> <td>Gas/Oil Ratio</td> <td>Well Status</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>→</td> <td></td> <td></td> <td></td> <td></td> <td>PRODUCING</td> <td></td> </tr> </tbody> </table>												Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method	08/12/09	08/16/08	24	→	92	0	35			Central Hydraulic 2 1/2" X 1 3/4" X 20' X 24' RHAC rod pump	Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status					→					PRODUCING																																									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method																																																																																		
08/12/09	08/16/08	24	→	92	0	35			Central Hydraulic 2 1/2" X 1 3/4" X 20' X 24' RHAC rod pump																																																																																		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status																																																																																			
			→					PRODUCING																																																																																			
28a. Production - Interval B																																																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Date First Produced</th> <th>Test Date</th> <th>Hours Tested</th> <th>Test Production</th> <th>Oil BBL</th> <th>Gas MCF</th> <th>Water BBL</th> <th>Oil Gravity Corr. API</th> <th>Gas Gravity</th> <th>Production Method</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>→</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Choke Size</td> <td>Tbg. Press. Flwg. SI</td> <td>Csg. Press.</td> <td>24 Hr. Rate</td> <td>Oil BBL</td> <td>Gas MCF</td> <td>Water BBL</td> <td>Gas/Oil Ratio</td> <td>Well Status</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>→</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method				→							Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status					→																																														
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method																																																																																		
			→																																																																																								
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status																																																																																			
			→																																																																																								

\*(See instructions and spaces for additional data on page 2)

RECEIVED  
OCT 14 2009

DIV. OF OIL, GAS & MINING



## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 29. Disposition of Gas (Solid, used for fuel, vented, etc.)

USED FOR FUEL

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

## GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	4015' 4214'
				GARDEN GULCH 2 POINT 3	4338' 4616'
				X MRKR Y MRKR	4853' 4887'
				DOUGALS CREEK MRK BI CARBONATE MRK	5023' 5276'
				B LIMESTON MRK CASTLE PEAK	5462' 5897'
				BASAL CARBONATE TOTAL DEPTH (LOGGERS)	6331' 6405'

## 32. Additional remarks (include plugging procedure):

Stage 1: Perforate CP3 sds @ 6091-94', 6058-60', CP2 sds @ 6021-23', 5979-80', CP1 sds @ 5845-48' w/ 3-1/8" Slick Guns (19 gram, .49"EH, 120°) w/ 3 spf for total of 36 shots.

Stage #3: Perforate A1 sds @ 5545-48', B2 sds @ 5453-56', 5421-23', 5396-98' w/ 3 spf for total of 30 shots.

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)     
 ☐ Geologic Report     
 ☐ DST Report     
 ☒ Directional Survey  
☐ Sundry Notice for plugging and cement verification     
 ☐ Core Analysis     
 ☐ Other:

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Tammi LeeTitle Production ClerkSignature Tammi LeeDate 10/07/2009

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



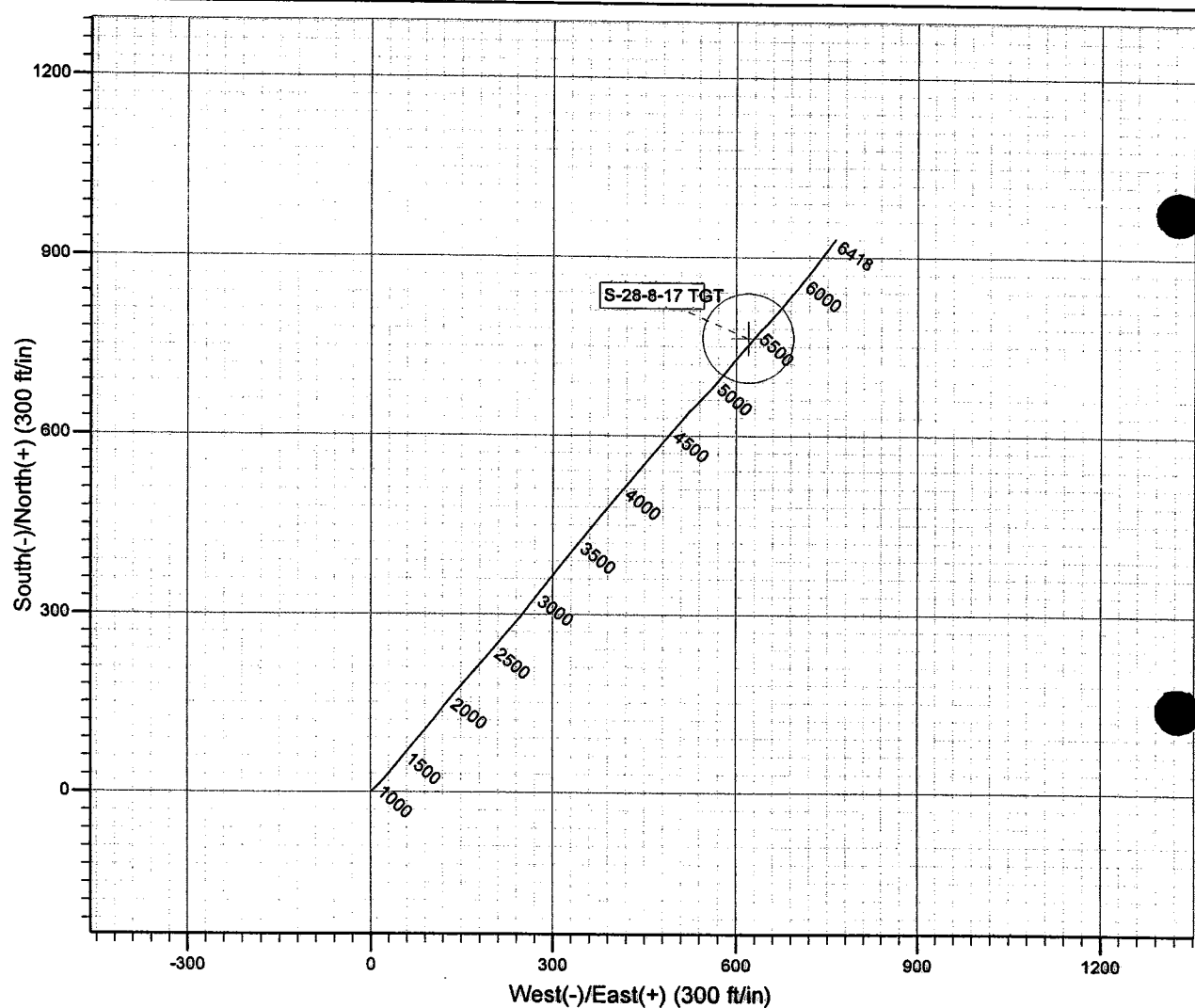
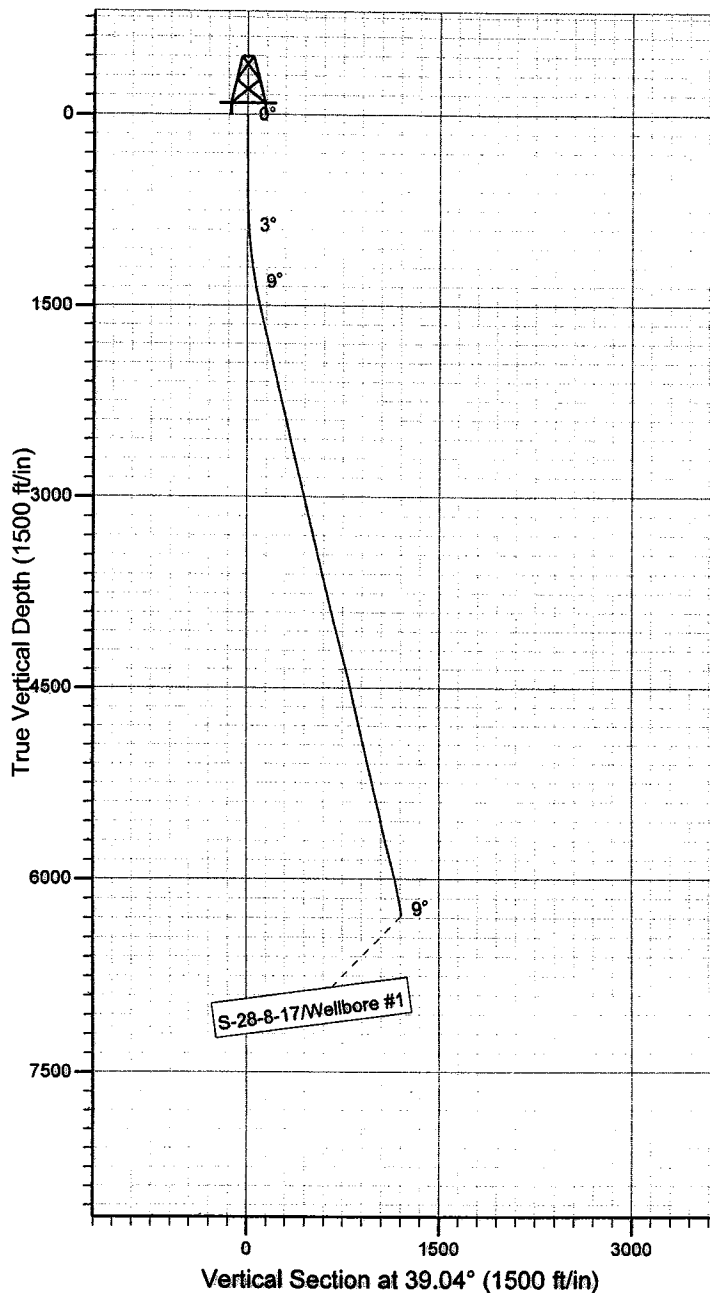
Project: USGS Myton SW (UT)  
Site: SECTION 28  
Well: S-28-8-17  
Wellbore: Wellbore #1  
SURVEY: Wellbore #1

FINAL SURVEY REPORT



Azimuths to True North  
Magnetic North: 11.54°

Magnetic Field  
Strength: 52530.6snT  
Dip Angle: 65.90°  
Date: 2009/06/08  
Model: IGRF200510



HATHAWAY HBBURNHAM  
DIRECTIONAL & MWD SERVICES

Design: Wellbore #1 (S-28-8-17/Wellbore #1)

Created By: *Jim Hudson*

Date: 8:22, July 21 2009

THIS SURVEY IS CORRECT TO THE BEST OF MY  
KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.

**NEWFIELD**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 28**

**S-28-8-17**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**21 July, 2009**

**HATHAWAY HBBURNHAM**

**DIRECTIONAL & MWD SERVICES**

Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 28  
 Well: S-28-8-17  
 Wellbore: Wellbore #1  
 Design: Wellbore #1

Local Co-ordinate Reference: Well S-28-8-17  
 TVD Reference: S-28-8-17 @ 5148.0ft (RIG #2)  
 MD Reference: S-28-8-17 @ 5148.0ft (RIG #2)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single User Db

Project USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

Map System: US State Plane 1983  
 Geo Datum: North American Datum 1983  
 Map Zone: Utah Central Zone

System Datum: Mean Sea Level  
 Using geodetic scale factor

Site SECTION 28, SEC 28 T8S, R17E

Site Position: Northing: 7,204,800.00 ft Latitude: 40° 5' 22.277 N  
 From: Lat/Long Easting: 2,057,000.00 ft Longitude: 110° 0' 39.302 W  
 Position Uncertainty: 0.0 ft Slot Radius: " Grid Convergence: 0.95 °

Well S-28-8-17, SHL LAT: 40 04 59.26, LONG: -110 00 31.76

Well Position +N/-S 0.0 ft Northing: 7,202,481.16 ft Latitude: 40° 4' 59.260 N  
 +E/-W 0.0 ft Easting: 2,057,624.84 ft Longitude: 110° 0' 31.760 W  
 Position Uncertainty 0.0 ft Wellhead Elevation: ft Ground Level: 0.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2009/06/08	11.54	65.90	52,531

Design Wellbore #1

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	39.04

Survey Program Date 2009/07/21

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
388.0	6,418.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
388.0	0.16	54.25	388.0	0.3	0.4	0.5	0.04	0.04	0.00
419.0	0.11	275.41	419.0	0.3	0.4	0.5	0.82	-0.16	-447.87
450.0	0.07	85.54	450.0	0.3	0.4	0.5	0.58	-0.13	548.81
480.0	0.37	27.93	480.0	0.4	0.5	0.7	1.13	1.00	-192.03
511.0	0.55	33.18	511.0	0.6	0.6	0.9	0.60	0.58	16.94
541.0	0.73	57.88	541.0	0.9	0.9	1.2	1.08	0.60	82.33
572.0	0.68	50.34	572.0	1.1	1.2	1.6	0.34	-0.16	-24.32
603.0	0.97	41.47	603.0	1.4	1.5	2.0	1.02	0.94	-28.61
633.0	1.06	45.16	633.0	1.8	1.9	2.6	0.37	0.30	12.30
664.0	1.49	52.54	664.0	2.2	2.4	3.2	1.48	1.39	23.81
694.0	1.60	55.51	694.0	2.7	3.0	4.0	0.45	0.37	9.90
725.0	1.96	46.43	725.0	3.3	3.8	5.0	1.47	1.16	-29.29



# HATHAWAY BURNHAM

## Survey Report



Company: NEWFIELD EXPLORATION  
Project: USGS Myton SW (UT)  
Site: SECTION 28  
Well: S-28-8-17  
Wellbore: Wellbore #1  
Design: Wellbore #1

Local Co-ordinate Reference: Well S-28-8-17  
TVD Reference: S-28-8-17 @ 5148.0ft (RIG #2)  
MD Reference: S-28-8-17 @ 5148.0ft (RIG #2)  
North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: EDM 2003.21 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
755.0	2.22	49.22	754.9	4.1	4.6	6.0	0.93	0.87	9.30
786.0	2.66	46.78	785.9	4.9	5.6	7.3	1.46	1.42	-7.87
817.0	2.79	51.64	816.9	5.9	6.7	8.8	0.85	0.42	15.68
847.0	3.14	53.02	846.8	6.9	7.9	10.3	1.19	1.17	4.60
878.0	3.56	46.19	877.8	8.0	9.3	12.1	1.87	1.35	-22.03
909.0	4.20	45.05	908.7	9.5	10.8	14.2	2.08	2.06	-3.68
941.0	4.35	45.88	940.6	11.2	12.5	16.5	0.51	0.47	2.59
973.0	4.50	43.51	972.5	12.9	14.2	19.0	0.74	0.47	-7.41
1,004.0	4.86	41.84	1,003.4	14.8	15.9	21.5	1.24	1.16	-5.39
1,036.0	5.30	40.50	1,035.3	16.9	17.8	24.3	1.42	1.38	-4.19
1,068.0	5.76	39.20	1,067.1	19.3	19.8	27.4	1.49	1.44	-4.06
1,100.0	6.11	39.58	1,099.0	21.8	21.9	30.7	1.10	1.09	1.19
1,131.0	6.44	40.61	1,129.8	24.4	24.1	34.1	1.12	1.06	3.32
1,163.0	7.16	41.01	1,161.6	27.3	26.5	37.9	2.25	2.25	1.25
1,195.0	7.65	40.41	1,193.3	30.4	29.2	42.0	1.55	1.53	-1.88
1,226.0	7.93	40.35	1,224.0	33.6	31.9	46.2	0.90	0.90	-0.19
1,258.0	8.48	38.35	1,255.7	37.2	34.8	50.8	1.94	1.72	-6.25
1,290.0	8.90	40.52	1,287.3	40.9	37.9	55.6	1.66	1.31	6.78
1,321.0	9.23	39.45	1,317.9	44.6	41.0	60.5	1.20	1.06	-3.45
1,353.0	9.75	40.62	1,349.5	48.7	44.4	65.8	1.73	1.63	3.66
1,384.0	9.96	40.15	1,380.0	52.7	47.9	71.1	0.73	0.68	-1.52
1,416.0	10.44	39.58	1,411.5	57.1	51.5	76.8	1.53	1.50	-1.78
1,448.0	10.79	40.10	1,443.0	61.6	55.3	82.7	1.13	1.09	1.63
1,479.0	11.45	40.63	1,473.4	66.1	59.2	88.6	2.15	2.13	1.71
1,511.0	11.91	40.06	1,504.7	71.1	63.4	95.1	1.48	1.44	-1.78
1,606.0	13.40	39.09	1,597.4	87.1	76.6	115.9	1.58	1.57	-1.02
1,701.0	14.59	40.19	1,689.6	104.8	91.3	138.9	1.28	1.25	1.16
1,796.0	14.11	38.81	1,781.6	123.0	106.2	162.4	0.62	-0.51	-1.45
1,891.0	13.50	37.29	1,873.9	140.8	120.2	185.1	0.75	-0.64	-1.60
1,987.0	12.83	36.96	1,967.4	158.3	133.4	207.0	0.70	-0.70	-0.34
2,082.0	12.85	40.74	2,060.0	174.7	146.7	228.1	0.88	0.02	3.98
2,177.0	13.07	39.91	2,152.6	190.9	160.4	249.4	0.30	0.23	-0.87
2,272.0	13.01	40.43	2,245.1	207.3	174.3	270.8	0.14	-0.06	0.55
2,367.0	12.88	39.18	2,337.7	223.7	187.9	292.1	0.32	-0.14	-1.32
2,462.0	12.72	39.05	2,430.3	240.0	201.2	313.1	0.17	-0.17	-0.14
2,557.0	12.19	37.98	2,523.1	256.0	213.9	333.6	0.61	-0.56	-1.13
2,652.0	12.59	40.04	2,615.9	271.9	226.8	354.0	0.63	0.42	2.17
2,747.0	13.29	39.95	2,708.5	288.2	240.4	375.2	0.74	0.74	-0.09
2,842.0	14.28	37.01	2,800.8	305.9	254.5	397.9	1.28	1.04	-3.09
2,937.0	13.25	35.09	2,893.0	324.1	267.8	420.4	1.19	-1.08	-2.02
3,033.0	12.22	37.67	2,986.7	341.2	280.3	441.6	1.23	-1.07	2.69
3,128.0	13.10	37.40	3,079.3	357.7	293.0	462.4	0.93	0.93	-0.28
3,223.0	13.12	38.52	3,171.9	374.7	306.3	483.9	0.27	0.02	1.18
3,318.0	14.15	38.81	3,264.2	392.2	320.3	506.3	1.09	1.08	0.31
3,413.0	13.05	37.40	3,356.5	409.7	334.1	528.7	1.21	-1.16	-1.48
3,506.0	13.54	38.70	3,447.0	426.6	347.3	550.0	0.62	0.53	1.40
3,601.0	13.27	37.60	3,539.4	443.9	360.9	572.1	0.39	-0.28	-1.16
3,696.0	12.90	39.73	3,632.0	460.7	374.3	593.6	0.64	-0.39	2.24
3,791.0	12.85	41.07	3,724.6	476.8	388.0	614.7	0.32	-0.05	1.41
3,886.0	14.11	39.25	3,817.0	493.7	402.3	636.9	1.40	1.33	-1.92
3,981.0	14.25	38.27	3,909.1	511.9	416.8	660.1	0.29	0.15	-1.03
4,077.0	14.37	40.06	4,002.1	530.3	431.8	683.9	0.48	0.13	1.86
4,172.0	14.85	39.42	4,094.0	548.7	447.1	707.8	0.53	0.51	-0.67
4,267.0	14.85	39.40	4,185.9	567.5	462.6	732.2	0.01	0.00	-0.02



# HATHAWAY BURNHAM

## Survey Report



Company: NEWFIELD EXPLORATION  
Project: USGS Myton SW (UT)  
Site: SECTION 28  
Well: S-28-8-17  
Wellbore: Wellbore #1  
Design: Wellbore #1

Local Co-ordinate Reference: Well S-28-8-17  
TVD Reference: S-28-8-17 @ 5148.0ft (RIG #2)  
MD Reference: S-28-8-17 @ 5148.0ft (RIG #2)  
North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: EDM 2003.21 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,362.0	14.92	39.99	4,277.7	586.3	478.2	756.6	0.18	0.07	0.62
4,457.0	13.67	38.98	4,369.7	604.4	493.1	780.0	1.34	-1.32	-1.06
4,552.0	12.77	39.56	4,462.2	621.2	506.9	801.8	0.96	-0.95	0.61
4,647.0	11.89	41.07	4,555.0	636.7	520.0	822.0	0.99	-0.93	1.59
4,742.0	11.90	44.70	4,648.0	651.0	533.3	841.6	0.79	0.01	3.82
4,837.0	12.17	42.98	4,740.9	665.3	547.0	861.3	0.47	0.28	-1.81
4,932.0	12.92	39.91	4,833.6	680.8	560.7	881.9	1.06	0.79	-3.23
5,027.0	12.72	40.79	4,926.3	696.9	574.3	903.0	0.29	-0.21	0.93
5,122.0	12.90	38.50	5,018.9	713.1	587.7	924.0	0.57	0.19	-2.41
5,217.0	13.05	37.56	5,111.5	729.9	600.9	945.4	0.27	0.16	-0.99
5,311.8	12.50	39.03	5,204.0	746.3	613.9	966.3	0.67	-0.58	1.55
<b>S-28-8-17 TGT</b>									
5,312.0	12.50	39.03	5,204.1	746.4	613.9	966.4	0.67	-0.57	1.61
5,406.0	12.94	41.09	5,295.8	762.2	627.2	987.1	0.67	0.47	2.19
5,501.0	13.45	42.87	5,388.3	778.3	641.7	1,008.7	0.69	0.54	1.87
5,597.0	12.17	41.82	5,481.9	794.0	656.1	1,030.0	1.36	-1.33	-1.09
5,692.0	12.04	40.30	5,574.8	809.1	669.1	1,049.9	0.36	-0.14	-1.60
5,788.0	13.01	40.32	5,668.5	824.9	682.6	1,070.7	1.01	1.01	0.02
5,883.0	14.22	39.34	5,760.8	842.1	696.9	1,093.0	1.30	1.27	-1.03
5,978.0	14.06	37.58	5,853.0	860.3	711.4	1,116.2	0.48	-0.17	-1.85
6,073.0	13.62	36.26	5,945.2	878.4	725.0	1,139.0	0.57	-0.46	-1.39
6,168.0	12.37	36.44	6,037.8	895.7	737.7	1,160.3	1.32	-1.32	0.19
6,263.0	10.92	36.17	6,130.8	911.1	749.0	1,179.4	1.53	-1.53	-0.28
6,358.0	8.88	34.70	6,224.4	924.4	758.5	1,195.7	2.16	-2.15	-1.55
6,418.0	7.80	33.00	6,283.8	931.6	763.4	1,204.4	1.85	-1.80	-2.83

### Wellbore Targets

#### Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
S-28-8-17 TGT	0.00	0.00	5,200.0	764.1	619.6	7,203,255.38	2,058,231.58	40° 5' 6.810 N	110° 0' 23.788 W
- actual wellpath misses by 19.1ft at 5311.8ft MD (5204.0 TVD, 746.3 N, 613.9 E)									
- Circle (radius 75.0)									

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



H	HEADER	INFORMATION	-----		
H	COMPANY	:	NEWFIELD	EXPLORATION	
H	FIELD	:	USGS	Myton	SW
H	SITE	:	SECTION	28	
H	WELL	:	S-28-8-17		
H	WELLPATH:	Wellbore	#1		
H	DEPTHUNT:	ft			
H	SURVDATE:		7/21/2009		
H	DECLINATION	CORR.			
H	=		10.59 TO	GRIDH-----	
H	WELL	INFORMATION			
H	WELL	EW	MAP	:	2057625
H	WELL	NS	MAP	:	7202481
H	DATUM	ELEVN	:		5148
H	VSECT	ANGLE	:		39.04
H	VSECT	NORTH	:		0
H	VSECT	EAST	:		0

H-----					
H	SURVEY	TYPE	INFORMATION		
H		388 -	6418 SURVEY	#1	

H-----						
H	SURVEY	LIST				
MD	INC	AZI	TVD	NS	EW	
	0	0	0	0	0	
	388	0.16	54.25	388	0.32	0.44
	419	0.11	275.41	419	0.34	0.45
	450	0.07	85.54	450	0.35	0.43
	480	0.37	27.93	480	0.44	0.5
	511	0.55	33.18	511	0.65	0.63
	541	0.73	57.88	541	0.87	0.87
	572	0.68	50.34	571.99	1.09	1.18
	603	0.97	41.47	602.99	1.41	1.49
	633	1.06	45.16	632.99	1.79	1.86
	664	1.49	52.54	663.98	2.24	2.38
	694	1.6	55.51	693.97	2.72	3.03
	725	1.96	46.43	724.95	3.33	3.78
	755	2.22	49.22	754.93	4.06	4.59
	786	2.66	46.78	785.9	4.94	5.57
	817	2.79	51.64	816.87	5.9	6.68
	847	3.14	53.02	846.83	6.85	7.91
	878	3.56	46.19	877.78	8.03	9.28
	909	4.2	45.05	908.71	9.5	10.78
	941	4.35	45.88	940.62	11.17	12.48
	973	4.5	43.51	972.52	12.92	14.22
	1004	4.86	41.84	1003.42	14.79	15.93
	1036	5.3	40.5	1035.29	16.92	17.79
	1068	5.76	39.2	1067.14	19.29	19.77

1100	6.11	39.58	1098.97	21.84	21.87
1131	6.44	40.61	1129.79	24.44	24.05
1163	7.16	41.01	1161.56	27.3	26.53
1195	7.65	40.41	1193.29	30.43	29.22
1226	7.93	40.35	1224.01	33.63	31.94
1258	8.48	38.35	1255.68	37.16	34.83
1290	8.9	40.52	1287.31	40.9	37.91
1321	9.23	39.45	1317.92	44.64	41.04
1353	9.75	40.62	1349.49	48.68	44.44
1384	9.96	40.15	1380.03	52.72	47.88
1416	10.44	39.58	1411.52	57.07	51.51
1448	10.79	40.1	1442.98	61.59	55.28
1479	11.45	40.63	1473.39	66.15	59.16
1511	11.91	40.06	1504.73	71.09	63.35
1606	13.4	39.09	1597.42	87.13	76.6
1701	14.59	40.19	1689.6	104.82	91.26
1796	14.11	38.81	1781.64	122.98	106.24
1891	13.5	37.29	1873.89	140.83	120.22
1987	12.83	36.96	1967.37	158.26	133.42
2082	12.85	40.74	2059.99	174.69	146.65
2177	13.07	39.91	2152.57	190.94	160.44
2272	13.01	40.43	2245.12	207.32	174.27
2367	12.88	39.18	2337.71	223.66	187.89
2462	12.72	39.05	2430.35	239.99	201.17
2557	12.19	37.98	2523.11	256.02	213.93
2652	12.59	40.04	2615.9	271.85	226.76
2747	13.29	39.95	2708.49	288.15	240.43
2842	14.28	37.01	2800.75	305.88	254.5
2937	13.25	35.09	2893.02	324.14	267.81
3033	12.22	37.67	2986.66	341.19	280.34
3128	13.1	37.4	3079.35	357.7	293.03
3223	13.12	38.52	3171.87	374.69	306.28
3318	14.15	38.81	3264.19	392.17	320.28
3413	13.05	37.4	3356.53	409.74	334.07
3506	13.54	38.7	3447.04	426.58	347.25
3601	13.27	37.6	3539.45	443.9	360.86
3696	12.9	39.73	3631.98	460.69	374.29
3791	12.85	41.07	3724.59	476.81	388.01
3886	14.11	39.25	3816.98	493.74	402.27
3981	14.25	38.27	3909.08	511.89	416.84
4077	14.37	40.06	4002.1	530.28	431.83
4172	14.85	39.42	4094.03	548.71	447.15
4267	14.85	39.4	4185.86	567.52	462.6
4362	14.92	39.99	4277.67	586.3	478.19
4457	13.67	38.98	4369.73	604.4	493.11
4552	12.77	39.56	4462.21	621.22	506.86
4647	11.89	41.07	4555.02	636.69	519.98

4742	11.9	44.7	4647.98	651.03	533.3
4837	12.17	42.98	4740.89	665.32	547.01
4932	12.92	39.91	4833.62	680.79	560.65
5027	12.72	40.79	4926.25	696.86	574.3
5122	12.9	38.5	5018.89	713.08	587.73
5217	13.05	37.56	5111.47	729.88	600.87
5312	12.5	39.03	5204.11	746.37	613.89
5406	12.94	41.09	5295.81	762.2	627.21
5501	13.45	42.87	5388.3	778.31	641.72
5597	12.17	41.82	5481.91	794.04	656.06
5692	12.04	40.3	5574.8	809.06	669.15
5788	13.01	40.32	5668.51	824.93	682.61
5883	14.22	39.34	5760.84	842.11	696.93
5978	14.06	37.58	5852.96	860.28	711.37
6073	13.62	36.26	5945.2	878.45	725.02
6168	12.37	36.44	6037.77	895.65	737.68
6263	10.92	36.17	6130.81	911.1	749.03
6358	8.88	34.7	6224.39	924.4	758.52
6418	7.8	33	6283.76	931.62	763.37

(UT)

: MWD

VS	DLS
0	0
0.52	0.04
0.55	0.82
0.54	0.58
0.65	1.13
0.9	0.6
1.22	1.08
1.59	0.34
2.03	1.02
2.56	0.37
3.24	1.48
4.02	0.45
4.96	1.47
6.04	0.93
7.35	1.46
8.79	0.85
10.3	1.19
12.08	1.87
14.17	2.08
16.54	0.51
18.99	0.74
21.52	1.24
24.35	1.42
27.43	1.49

30.74	1.1
34.13	1.12
37.92	2.25
42.04	1.55
46.24	0.9
50.8	1.94
55.64	1.66
60.52	1.2
65.8	1.73
71.1	0.73
76.77	1.53
82.66	1.13
88.64	2.15
95.12	1.48
115.93	1.58
138.9	1.28
162.44	0.62
185.1	0.75
206.96	0.7
228.06	0.88
249.36	0.3
270.79	0.14
292.06	0.32
313.11	0.17
333.6	0.61
353.98	0.63
375.25	0.74
397.88	1.28
420.45	1.19
441.58	1.23
462.4	0.93
483.94	0.27
506.33	1.09
528.67	1.21
550.05	0.62
572.07	0.39
593.57	0.64
614.73	0.32
636.87	1.4
660.14	0.29
683.87	0.48
707.83	0.53
732.18	0.01
756.58	0.18
780.03	1.34
801.76	0.96
822.04	0.99

841.56	0.79
861.3	0.47
881.91	1.06
902.98	0.29
924.04	0.57
945.37	0.27
966.37	0.67
987.06	0.67
1008.72	0.69
1029.96	1.36
1049.87	0.36
1070.68	1.01
1093.04	1.3
1116.25	0.48
1138.96	0.57
1160.29	1.32
1179.45	1.53
1195.75	2.16
1204.41	1.85